

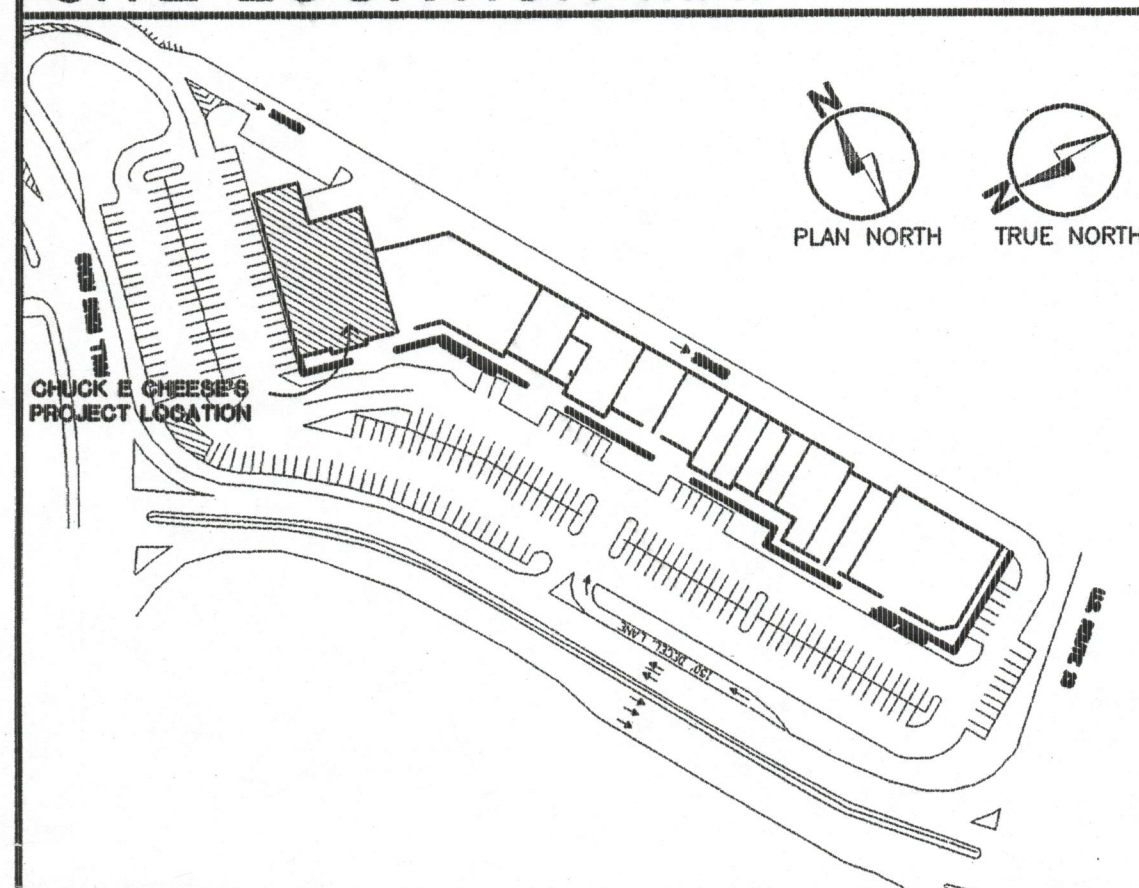


Unit No.: 759

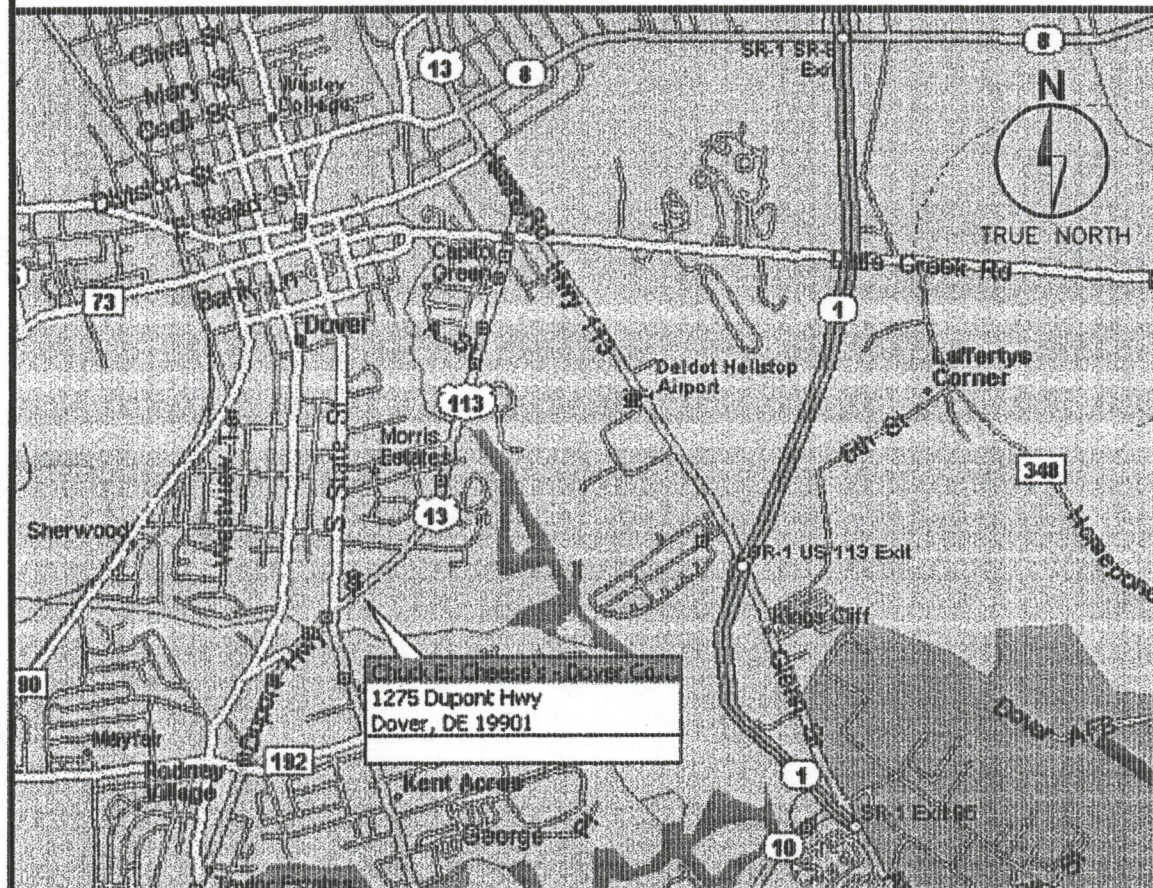
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Suite 100
Dover, DE 19901

PERMIT SET
AUGUST 08, 2002

SITE LOCATION MAP



AREA LOCATION MAP



LOCAL CODE INFORMATION

BUILDING CODE: BOCA NATIONAL BUILDING CODE 1999
PLUMBING CODE: INTERNATIONAL PLUMBING CODE 1997
ELECTRIC CODE: NEC 2000
MECHANICAL CODE: INTERNATIONAL PLUMBING 1998
ENERGY CODE: MODEL ENERGY CODE 1999

BUILDING LEASE AREA 9,913 SF APPROX.
USEABLE LEASE AREA 6,928 SF APPROX.
SEATING CAPACITY 294

LIST OF CONTACTS

OWNER
CEC ENTERTAINMENT
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062
PH: 972-258-8507
EMAIL: jwohead@cecentertainment.com

CONTACT:
JEFF WOHEAD

ARCHITECT
GHA ARCHITECTURE/DEVELOPMENT
14110 DALLAS PARKWAY, SUITE 100
DALLAS, TEXAS 75240
PH: 972-239-8884
FAX: 972-239-5054
EMAIL: efields@gha-architects.com

CONTACT:
EVERETT FIELDS

MEP ENGINEER
LIPPE AND ASSOCIATES
15950 MIDWAY RD.
ADDISON, TEXAS 75001
PH: 972-387-3500
FAX: 972-387-3859
EMAIL: mmccain@lippeengr.com

CONTACT:
MARK MCCAIN

LANDLORD
GENERAL GROWTH
110 NORTH WACKER
CHICAGO, IL 60606
PH: 312-960-5146
FAX: 312-960-5064
EMAIL: jkaspers@generalgrowth.com

CONTACT:
JERRY KASPERSKI

PROJECT SCOPE

DEMOLITION

EXISTING CEILING, INTERIOR WALLS AND FLOORING TO BE REMOVED PER ARCHITECTURAL DRAWINGS.
FINISHES ON DEMISING WALL ARE TO REMAIN. PORTION OF EXISTING CMU WALL TO BE REMOVED PER ELEVATIONS. G.C. TO COORDINATE ALL DEMOLITION W/LANDLORD FACILITY MANAGER PRIOR TO COMMENCING

NEW CONSTRUCTION

RESTAURANT TO INCLUDE BUFFET PIZZA DINING AND GAMES

MILLWORK, KITCHEN EQUIPMENT AND OWNER SUPPLIED
ITEMS SHOWN FOR CLARIFICATION AND COORDINATION ONLY.
G.C. TO COORDINATE AND VERIFY EXACT LOCATIONS/SPECIFICATIONS

INDEX TO DRAWINGS:

SHEET DESCRIPTION

CS COVER SHEET, CONTACTS & INDEX

S1.0 ROOF PLAN/DETAILS

A0.1 GENERAL NOTES
A0.2 DEMOLITION PLAN
A1.0 FLOOR PLAN
A1.1 ENLARGED FLOOR PLAN
A1.2 OUTLET FLOOR PLAN
A2.0 FINISH FLOOR PLAN
A3.0 REFLECTED CEILING PLAN
A4.0 EXTERIOR ELEVATIONS
A5.0 INTERIOR ELEVATIONS
A5.1 INTERIOR ELEVATIONS
A5.2 INTERIOR ELEVATIONS
A7.0 DETAILS
A7.1 BUILDING SECTION/DETAILS
A8.0 DOOR SCHEDULE/FINISHES
A9.0 FURN, FIXT & EQUIP PLAN
A9.1 EQUIPMENT PLAN

M1.1 MECHANICAL PLAN
M1.2 SCHEDULES, NOTES AND DETAILS
M1.3 DETAILS

E1.1 LIGHTING FLOOR PLAN
E1.2 POWER-FLOOR PLAN
E2.1 POWER-KITCHEN PLAN
E3.1 SCHEDULES, NOTES AND RISER DIA.

P1.1 PLUMBING FLOOR PLAN
P2.1 PARTIAL FLOOR PLAN - WASTE/WATER
P3.1 SCHEDULES, NOTES AND DETAILS
P3.2 DETAILS
P4.1 RISER DIAGRAMS - PLUMBING/GAS
P5.1 PLUMBING FLOOR PLAN - ROUGH-IN

SP.1 SPECIFICATIONS

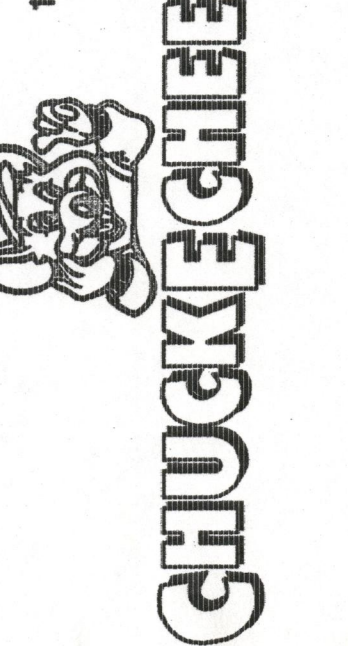
Plan of Approval
City of Dover
Dept. of Inspection & Planning
Date 9/13/02
Name Honey R. Baygourin
Title Deputy Fire Marshal

GH A

Architecture / Development
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14110 Dallas Parkway
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other person
involved in the
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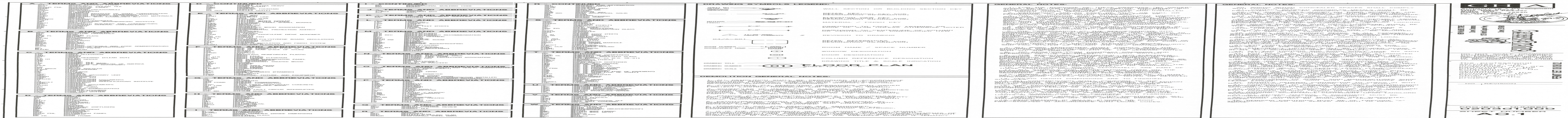
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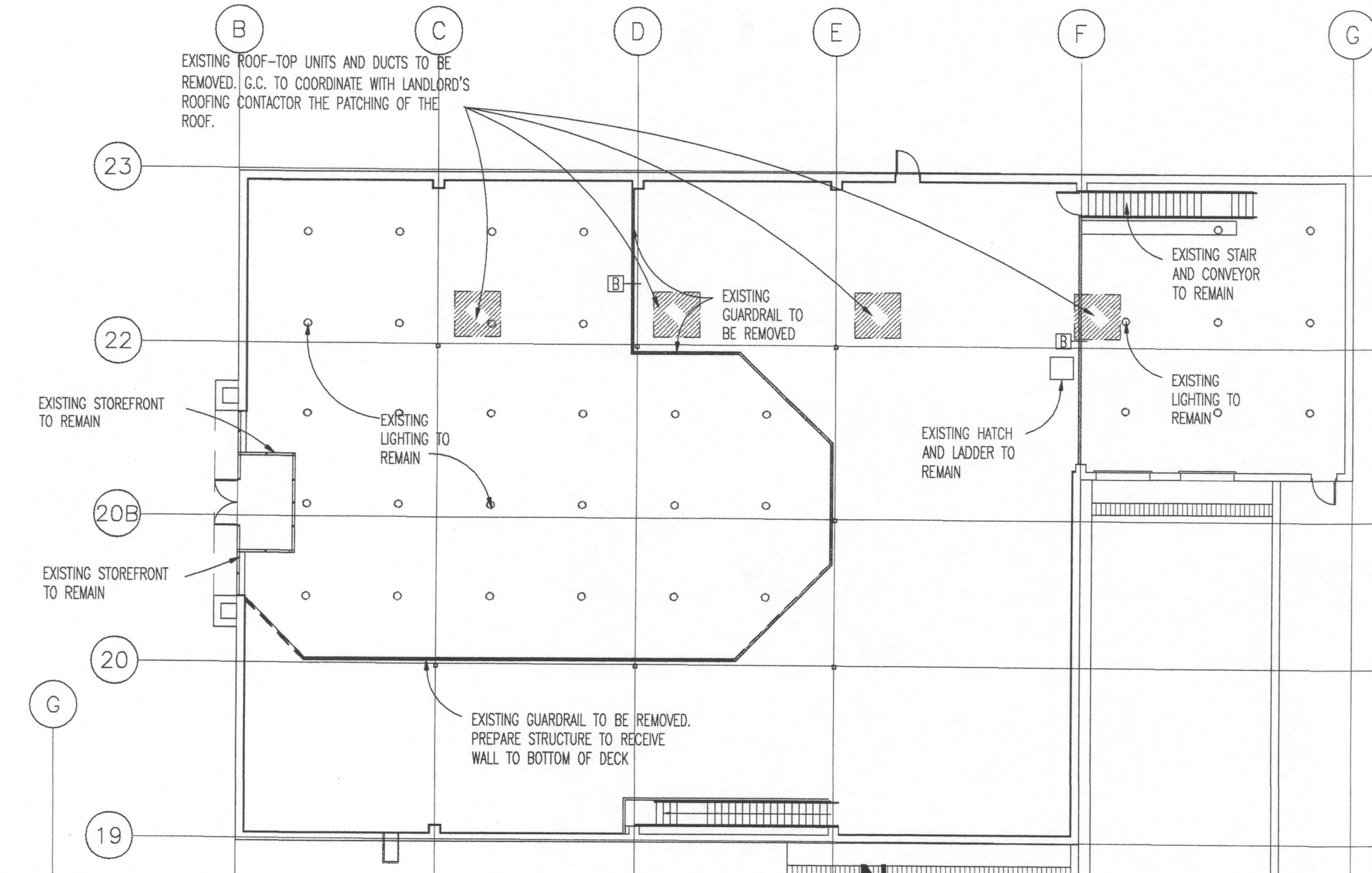
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DATE OF THIS PRINTING - 08/13/02

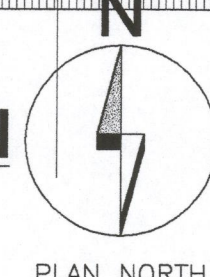
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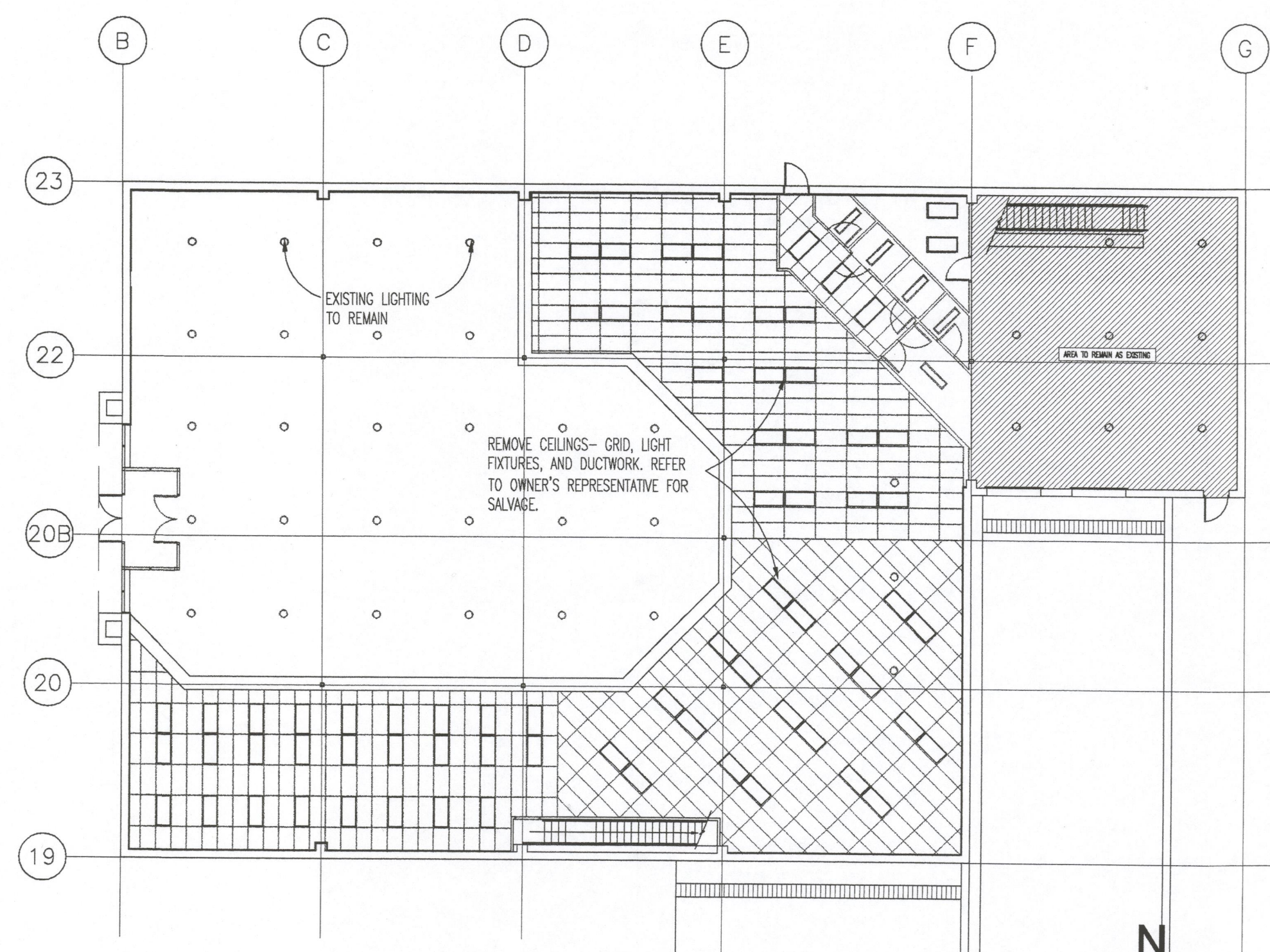




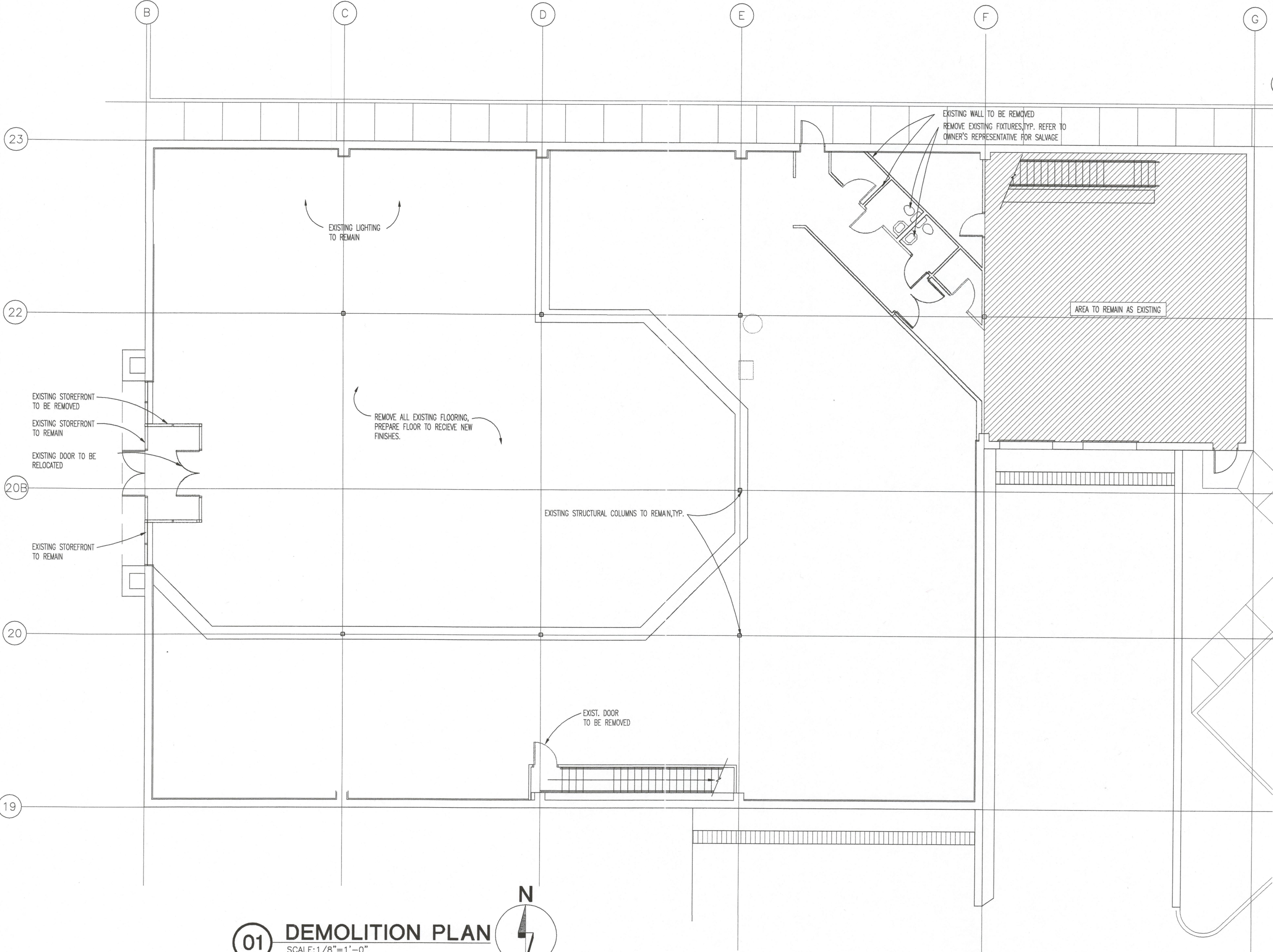
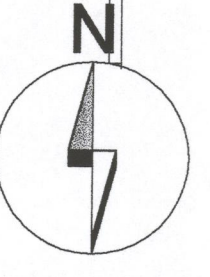
02 DEMOLITION PLAN
SCALE: 1/16"=1'-0"



G.C. WITH LANDLORD'S ROOFING CONSULTANT
SHALL OBSERVE CURRENT ROOF CONDITION AND
REPORT TO OWNER ANY PROBLEM AREA BEFORE
START OF CONSTRUCTION

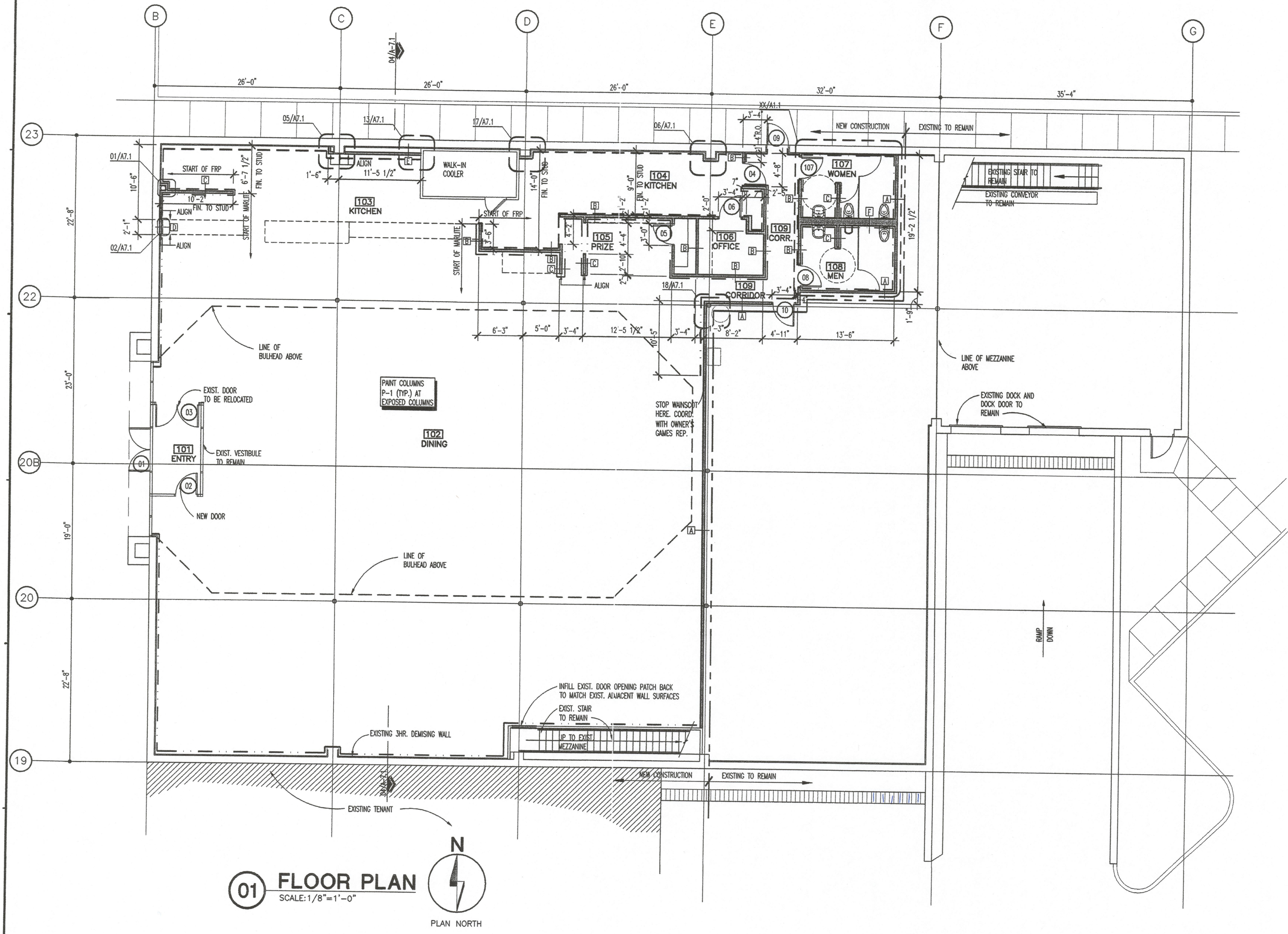


03 DEMO REFLECTED CEILING PLAN
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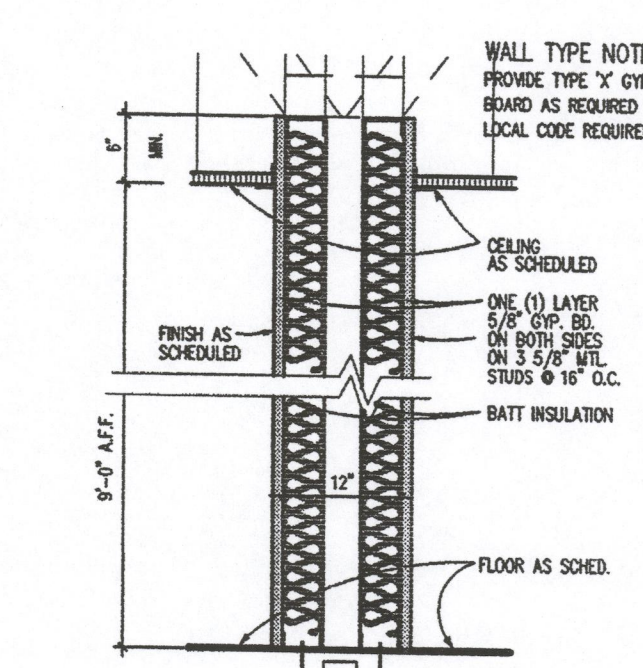
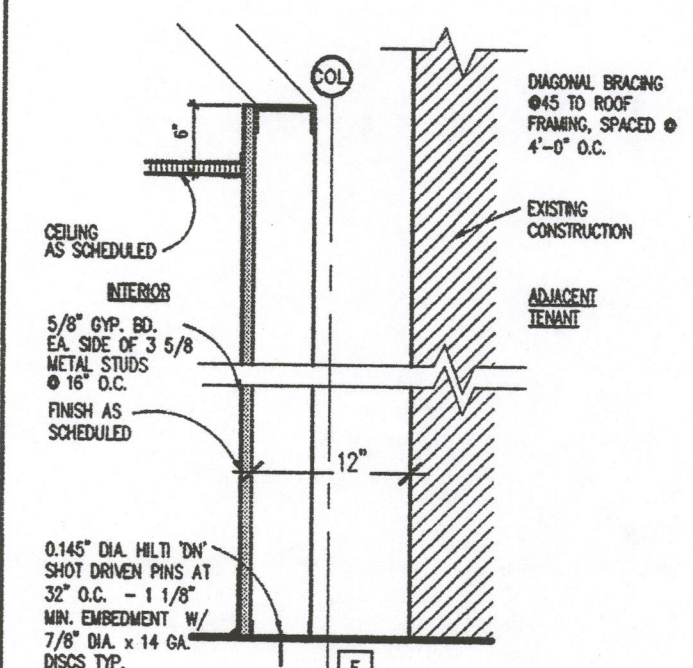
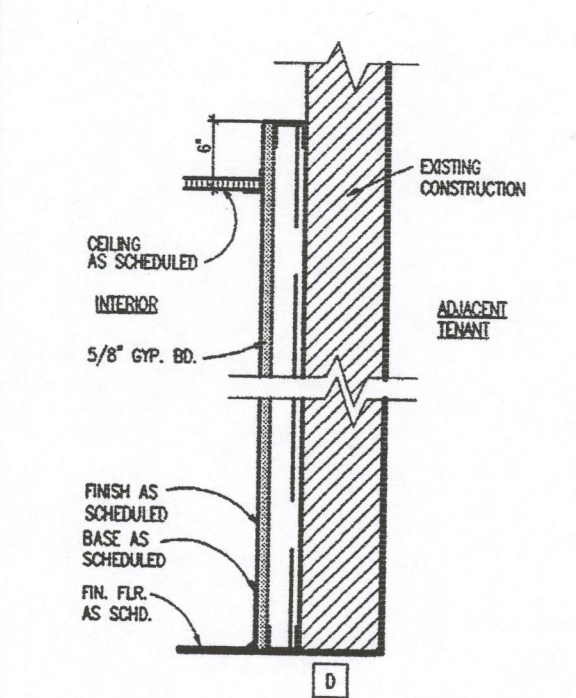
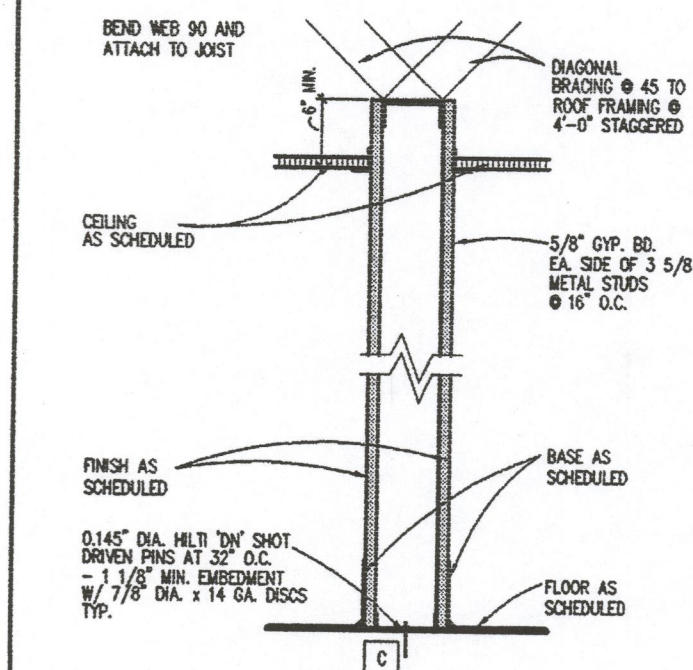
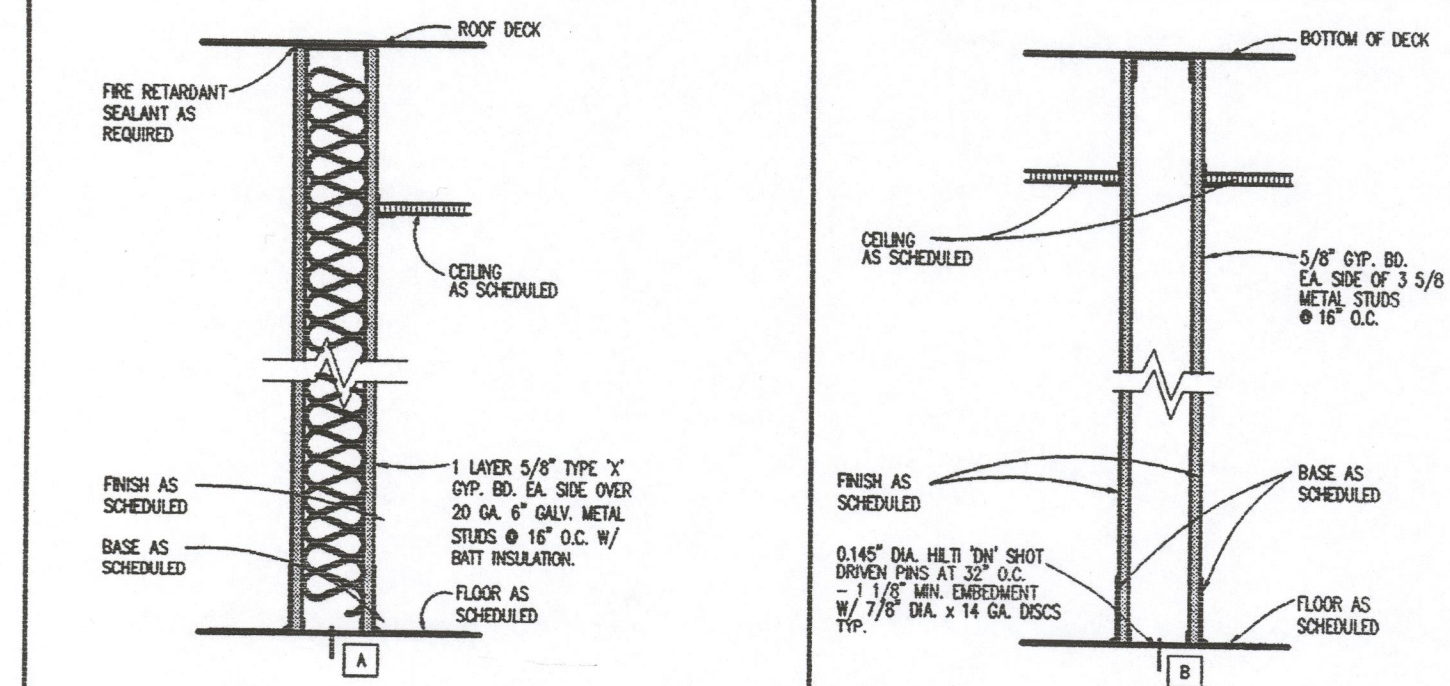


01 DEMOLITION PLAN
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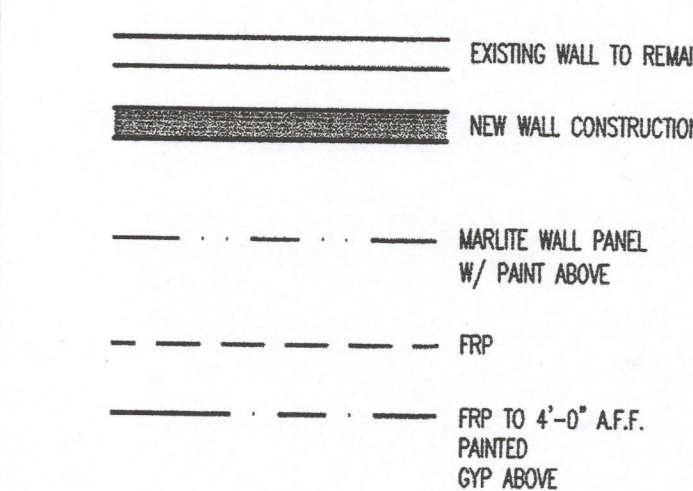




WALL TYPES



WALL LEGEND



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ANDREW G. HARRIS
REGISTERED ARCHITECT
STATE OF TEXAS
No. 00664

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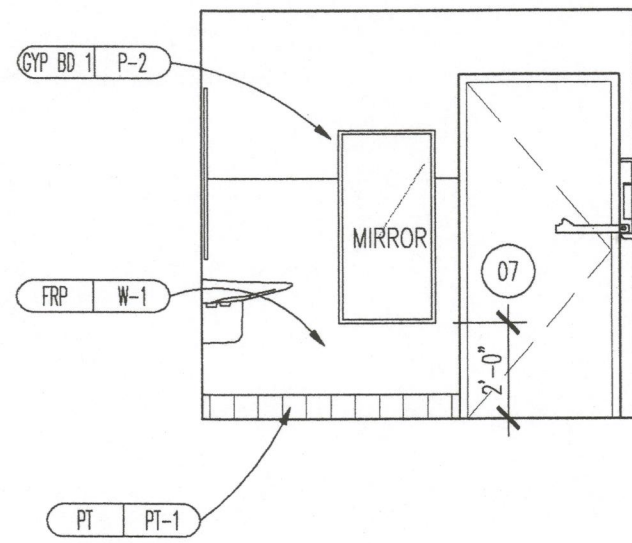
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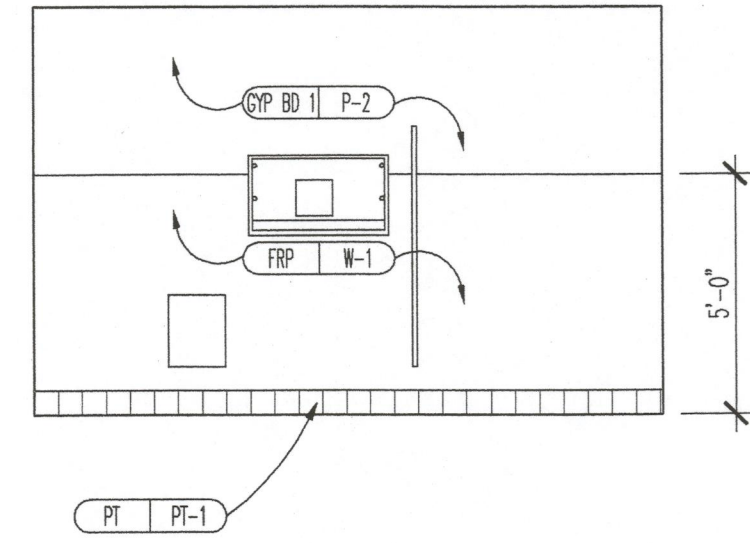
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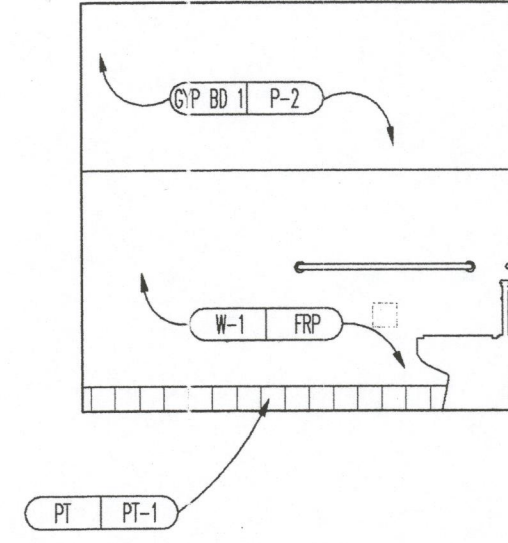
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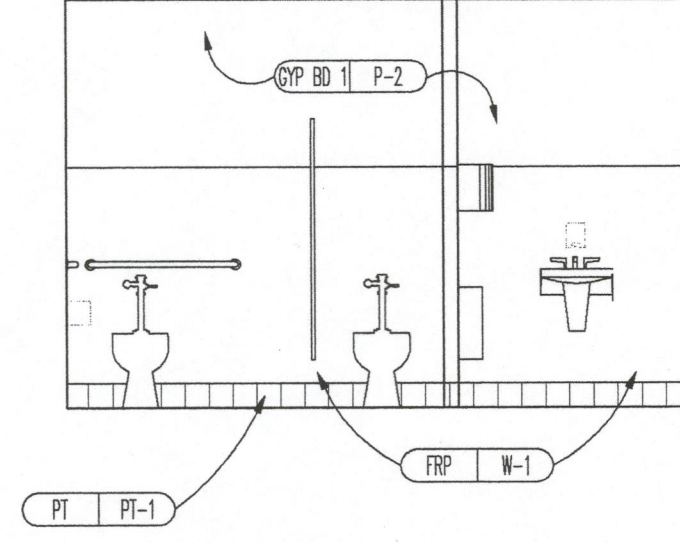
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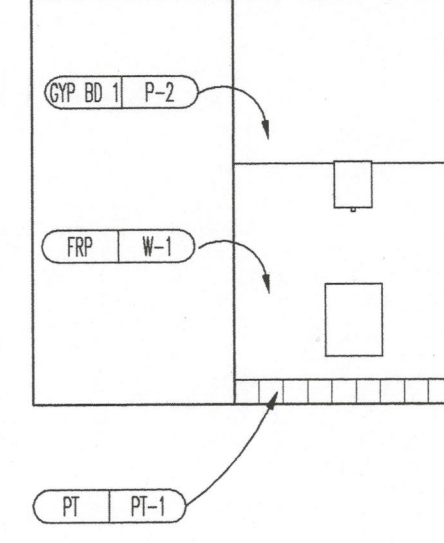
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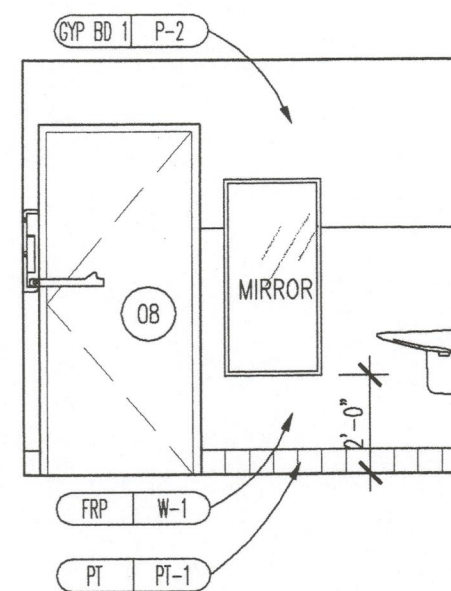
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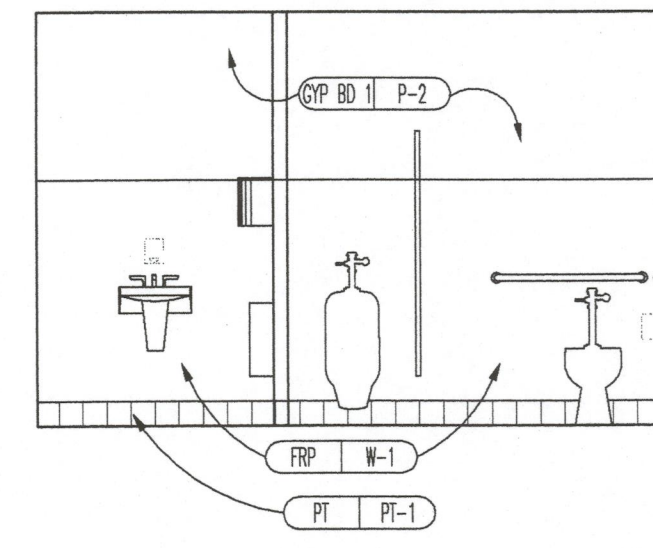
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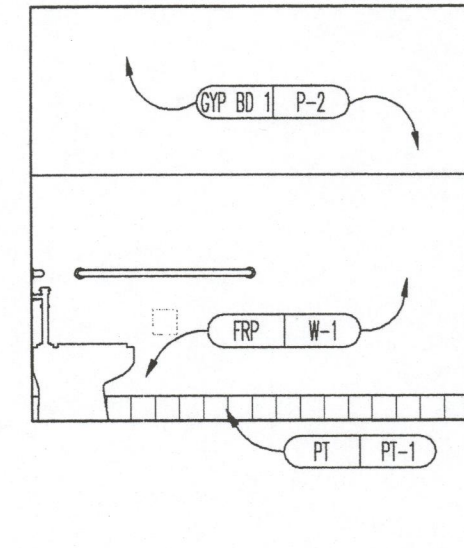
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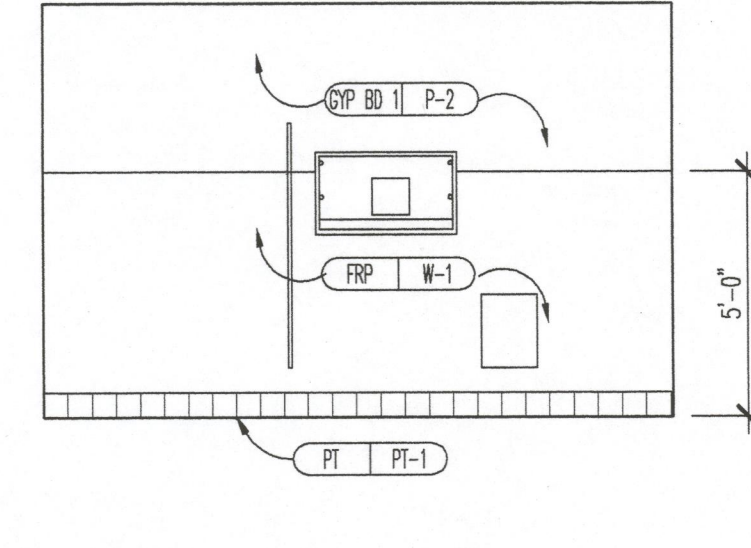
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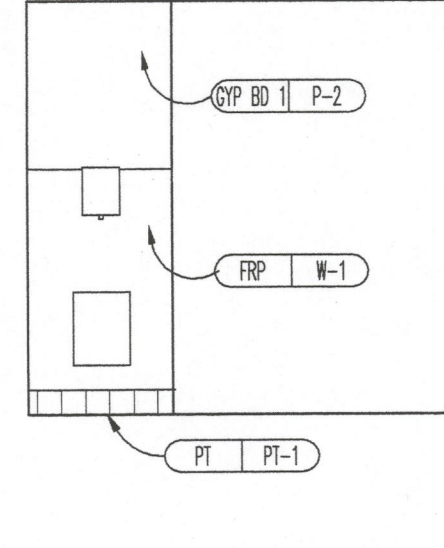
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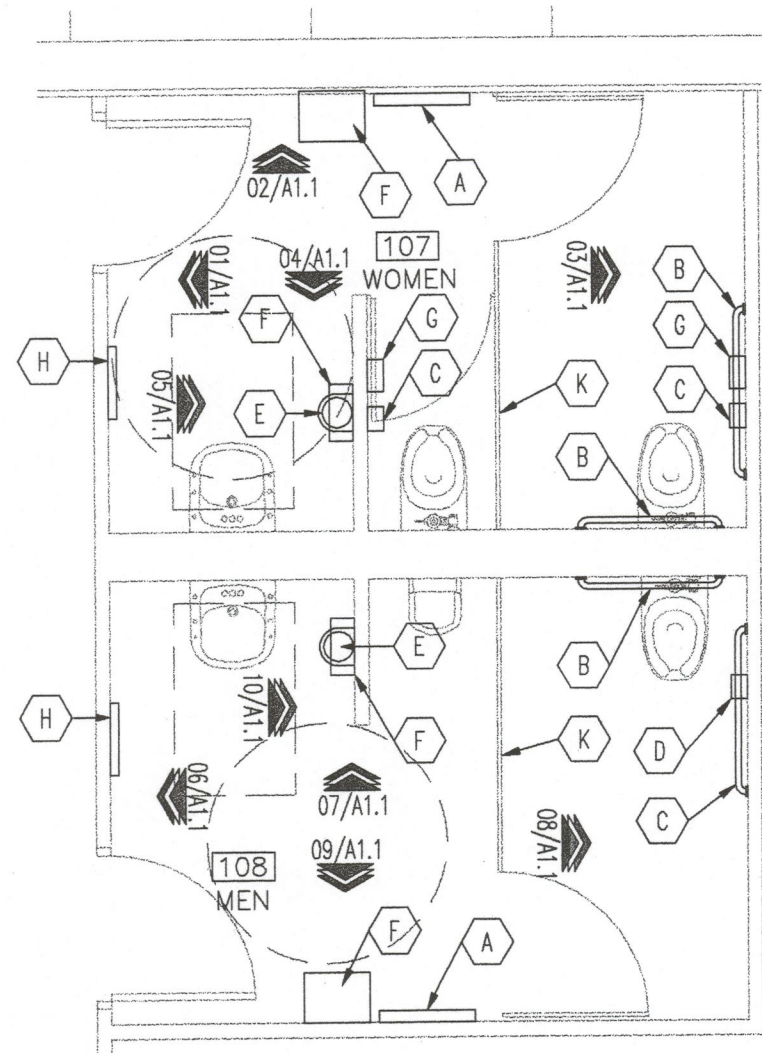
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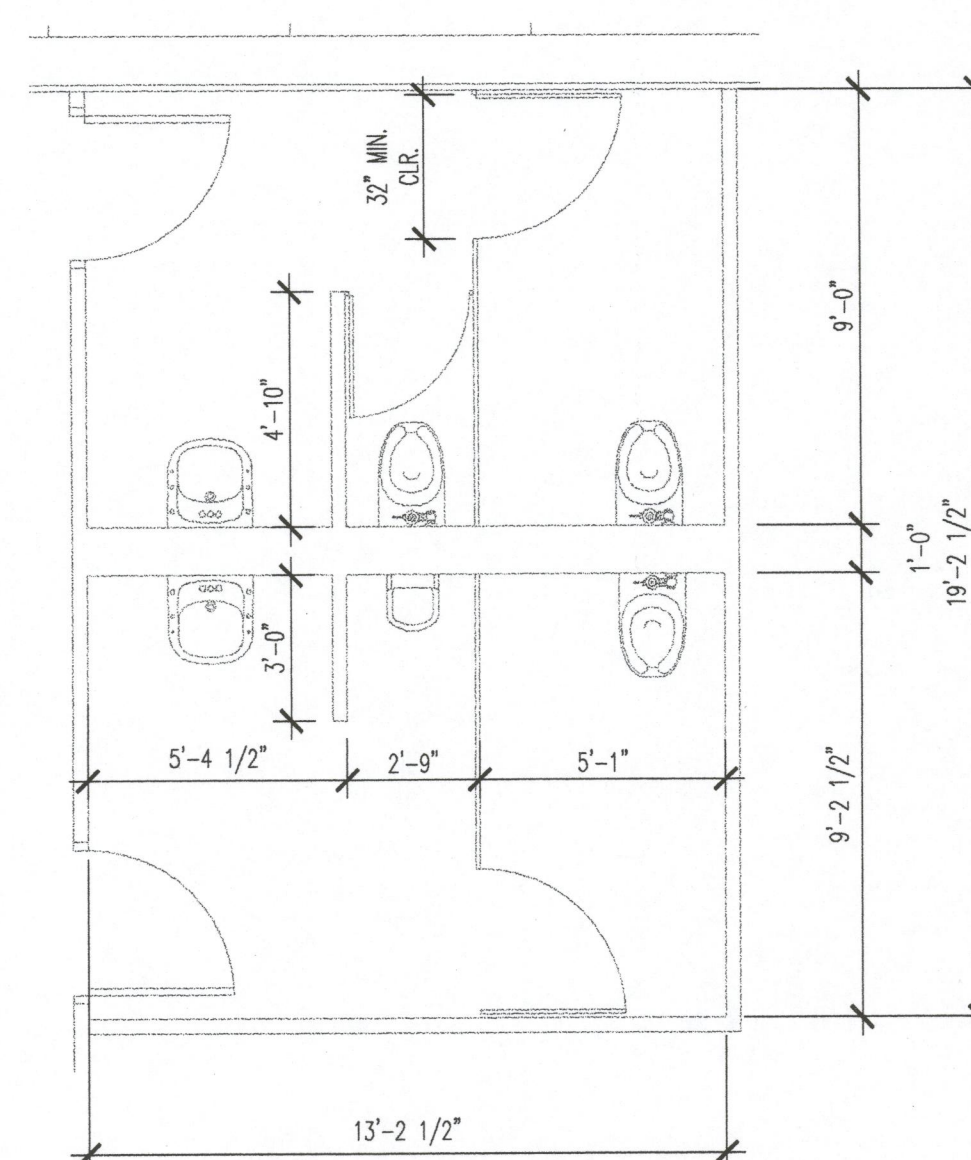
09 MEN
SCALE: 1/4"=1'-0"



10 MEN
SCALE: 1/4"=1'-0"



09 TOILET FIXTURE PLAN
SCALE: 1/4"=1'-0"



10 TOILET DIMENSION PLAN
SCALE: 1/4"=1'-0"

TOILET ROOM ACCESSORIES

MARK	MANUFACTURER	DESCRIPTION	FURNISHED BY	INSTALLED BY	BLOCKING REQUIRED	REMARKS
A	KOLA BEAR KARE	BEIGE HORIZONTAL BABY CHANGING TABLE	G.C.	G.C.	X	
B	BRADLEY 8120-001420	42" HANDICAP GRAB BARS	G.C.	G.C.	X	
C	BRADLEY 8120-00136	36" HANDICAP GRAB BARS	G.C.	G.C.	X	
D	JAMES RIVER	TISSUE DISPENSER SINGLE STALL	OWNER	G.C.		
E	JAMES RIVER	TOWEL DISPENSER	OWNER	G.C.		
F	BOBRICK B-279	WASTE RECEPTACLE FOR BABY CHANGE	OWNER	G.C.		INCLUDED IN OWNERS SMALL WARES
G	BRADLEY #4781-15	NAPKIN DISPOSAL BOXES	G.C.	G.C.		CONTRACTOR SHALL INSTALL ONE NAPKIN DISPOSAL BOX IN EACH STALL OF THE WOMEN'S RESTROOM
H	BRADLEY #780-2448	(24"x48") STAINLESS STEEL MIRROR	G.C.	G.C.	X	
K	T.B.O.	TOILET PARTITIONS	G.C.	G.C.	X	VERIFY EXACT SPECIFICATION W/OWNER
M	ECOLAB	SOAP DISPENSER	OWNER	G.C.		MOUNT OVER SINK

TOILET ROOM SPECIFICATION

TOILET PARTITIONS

HIGH PRESSURE LAMINATED PLASTIC ON 45# MEDIUM DENSITY PARTICLE BOARD, WITH 7/8" DOORS & PANELS, 1 1/4" THK PILASTERS, FLOOR MOUNTED & OVERHEAD BRACED, WITH STAINLESS STEEL BASES, BRACKETS, & CHROME PLATED ZAMAC HARDWARE, AS PROVIDED BY AMPOCO PRODUCTS, INC. OF HIALEA, FLA (OR APPROVED EQUAL). COLOR: WILSONART HOLLYBERRY RED DS07-76 MATTE FINISH.

TOILET FIXTURES

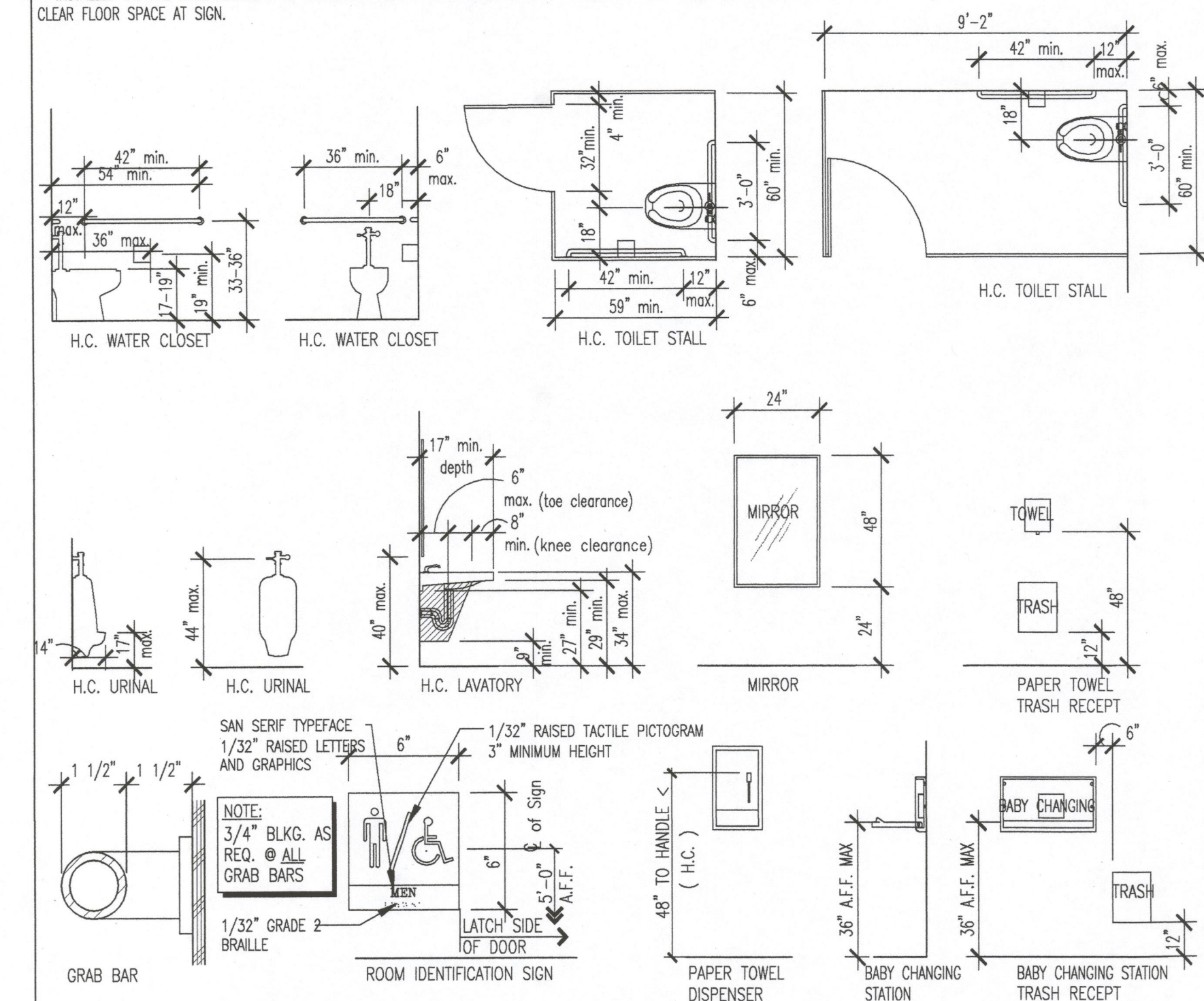
SEE SHEET "P3" FOR PLUMBING FIXTURE SCHEDULE.

TOILET ROOM ADA COMPLIANCE

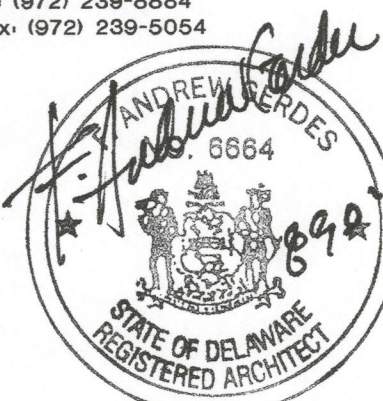
NOTE:

TOILET ROOMS SHALL CONFORM TO ALL ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- A. WATER CLOSET SEAT HEIGHT: 17" TO 19" A.F.F.
- B. CENTERLINE OF WATER CLOSET: 18" FROM SIDEWALL.
- C. GRAB BAR BEHIND WATER CLOSET: 36" LONG, MOUNTED 33" TO 36" A.F.F.
- D. GRAB BARS AT SIDE OF WATER CLOSET: 42" LONG MOUNTED 33" TO 36" A.F.F.
- E. GRAB BAR DIAMETER: 1 1/4" TO 1 1/2" O.D.
- F. SPACE BETWEEN WALL AND GRAB BAR: 1 1/2"
- G. TOILET PAPER DISPENSER: 36" MAX. FROM REAR WALL, 19" MIN. A.F.F.
- H. KNEE CLEARANCE AT LAVATORY: APRON 29" MIN. HEIGHT, 8" MIN. DEPTH.
- I. LAVATORY DEPTH: 17" MIN.
- J. LAVATORY HOT WATER AND DRAINPIPS TO BE INSULATED WHEREVER EXPOSED WITH FORM FITTING WRAPS.
- K. LAVATORY COUNTER TOP: 34" MAX. A.F.F.
- L. MIRROR BOTTOM EDGE: 40" MAX. A.F.F.
- M. INTERNATIONAL SYMBOL OF ACCESSIBILITY TO BE INSTALLED ON EXTERIOR OF THE TOILET ROOM DOOR. IDENTIFICATION SIGNS ARE RAISED SAN SERIF OR SIMPLE SERIF AND ALSO HAVE GRADE 2 BRAILLE. PICTORIAL SYMBOLS ARE AT LEAST 6" HIGH AND INCLUDE VERBAL DESCRIPTION. ROOM IDENTIFICATION SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE ROOM DOOR AT A HEIGHT OF 60" A.F.F. PROVIDE CLEAR FLOOR SPACE AT SIGN.



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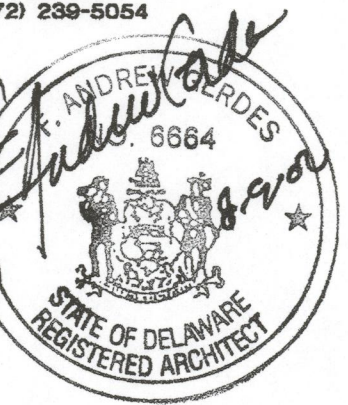
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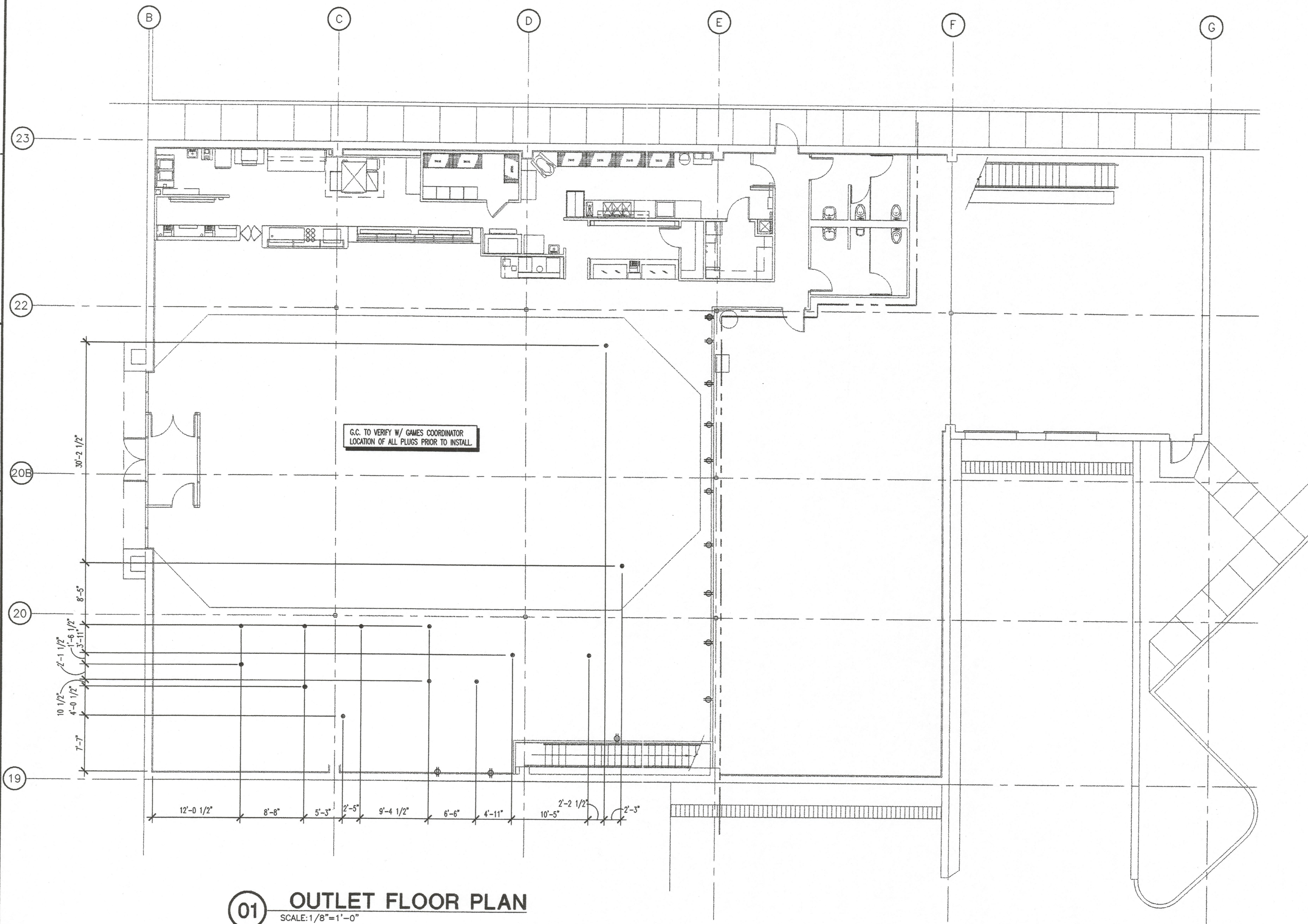
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A1.2

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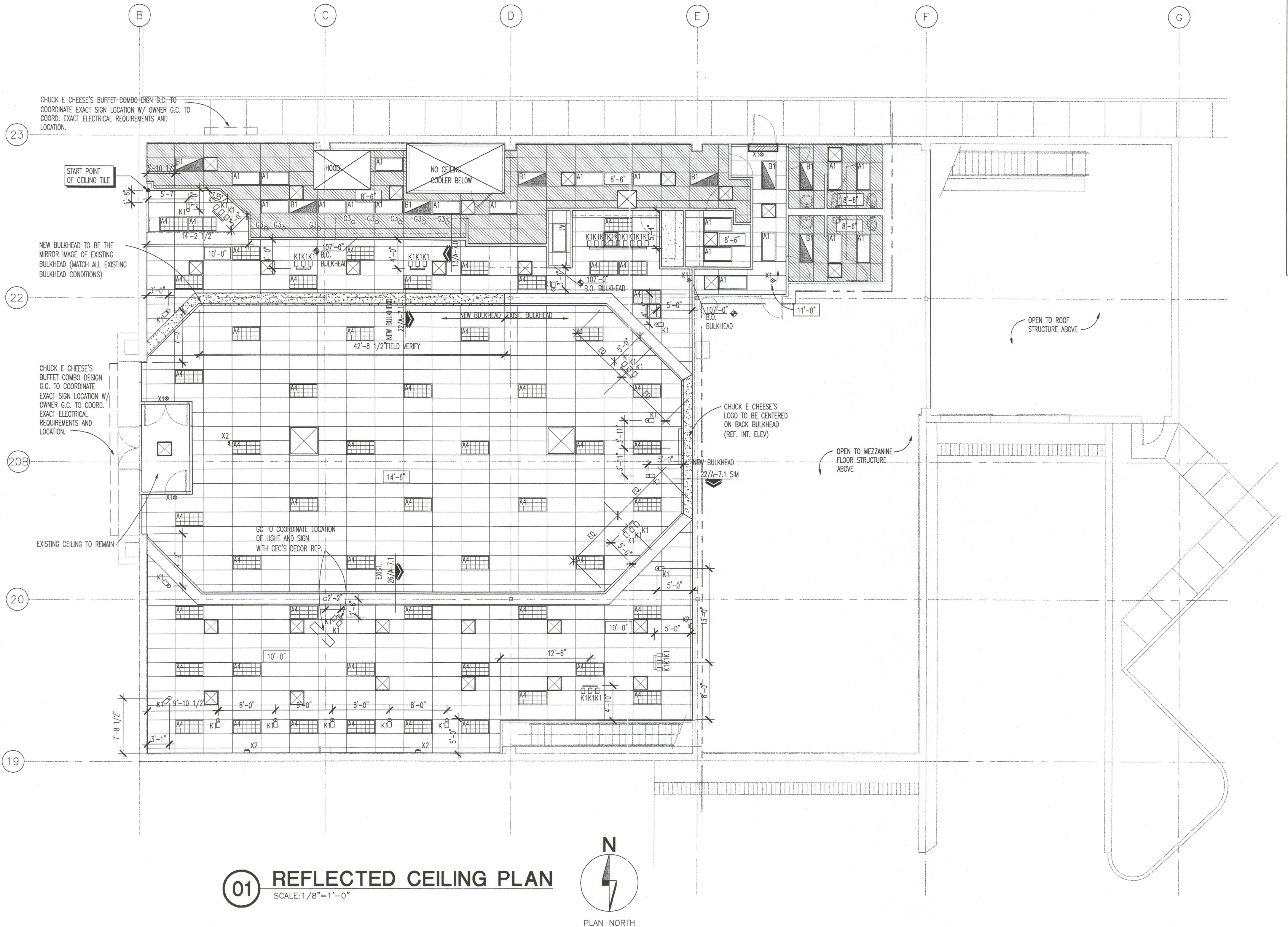
01 OUTLET FLOOR PLAN
 SCALE: 1/8"=1'-0"

REFLECTED CEILING PLAN

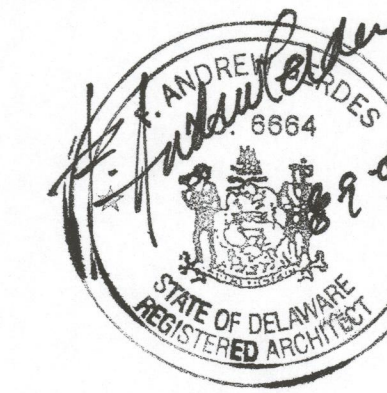
1. NO SPRINKLER HEADS, ETC. SHALL TOUCH THE CEILING "TIS" OR SHADOW LINE, CENTER IN PANEL.
2. REFER TO ELECTRICAL DRAWINGS FOR EXACT FIXTURE SPECIFICATIONS. ALL FIXTURES ARE AS PROVIDED BY DEALERS ELECTRICAL SUPPLY 3831 CONFLANS ROAD IRVING, TX 75039.
3. 5 LIGHTS @ PIZZA BUFFET (RED SHADE)
1 LIGHT @ PASTA WELL (YELLOW SHADE)
2 LIGHTS @ SALAD BAR (GREEN SHADE)
G3 FIXTURES TYPICAL
4. VERIFY ALL SPEAKERS LOCATION W/OWNER PRIOR TO INSTALLATION.
5. ACCESS PANELS IN CEILING MUST BE LOCATED TO PROVIDE ACCESS TO LANDLORD'S MECHANICAL EQUIPMENT PER LOCAL GENERAL GROWTH AUTHORITY.
6. EXISTING FIXTURES TO REMAIN AND TO BE RELOCATED ARE TO BE PHASE ON THE SAME SWITCH

FIXTURE LEGEND

	2X4 LAY-IN ACOUSTIC TILE (LT-1)		STRAIGHT-SIDED UTILITY CHANNEL 4'-0" UTILITY FLUORESCENT STRIP LIGHT
	2X4 VINYL FACED LAY-IN TILE (LT-2)		PENDANT FIXTURE
	GYP SOFFIT		SPOT LIGHT W/ MONOPOINT MOUNT
	2X4 LAY-IN FLUORESCENT FIXTURE W/ ACRYLIC LENS E/R (EXISTING/RELOCATE/REUSE)		LIGHT TRACK (LENGTH AND HEADS AS SHOWN ON DRAWING)
	2X4 LAY-IN FLUORESCENT FIXTURE W/ EGGRATE GRILL		EXIT LIGHT
	2X4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP & ACRYLIC LENS		EMERGENCY LIGHT
			RETURN AIR GRILLE
			SUPPLY AIR GRILLE
			SPEAKER
			INTERIOR AIR CURTAIN OVER KITCHEN DELIVERY DOOR



01 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



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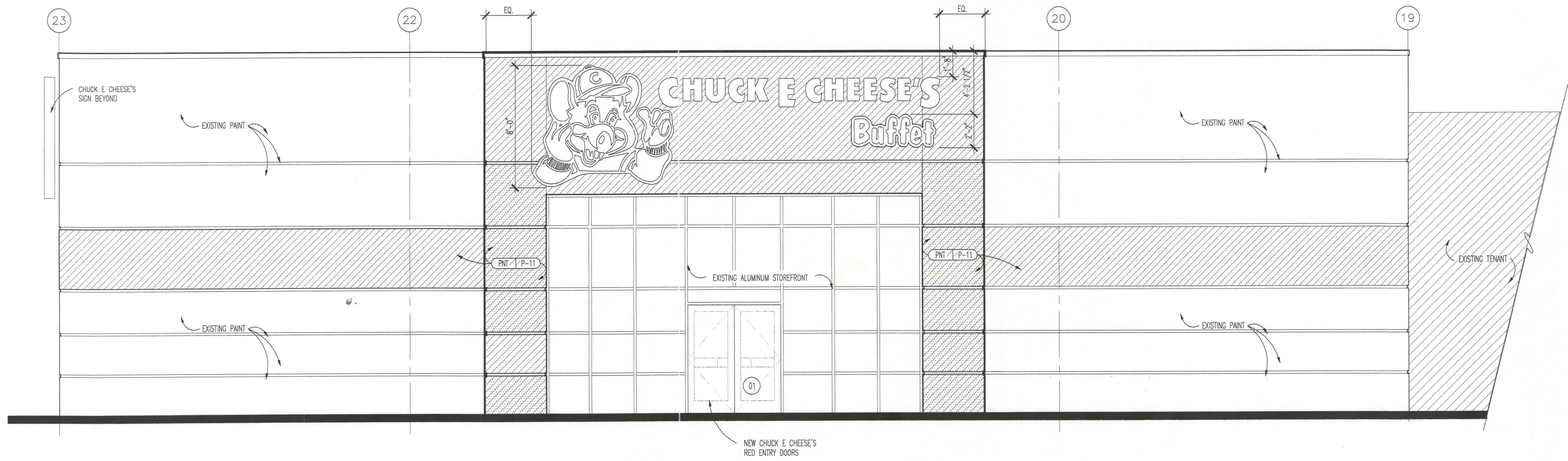
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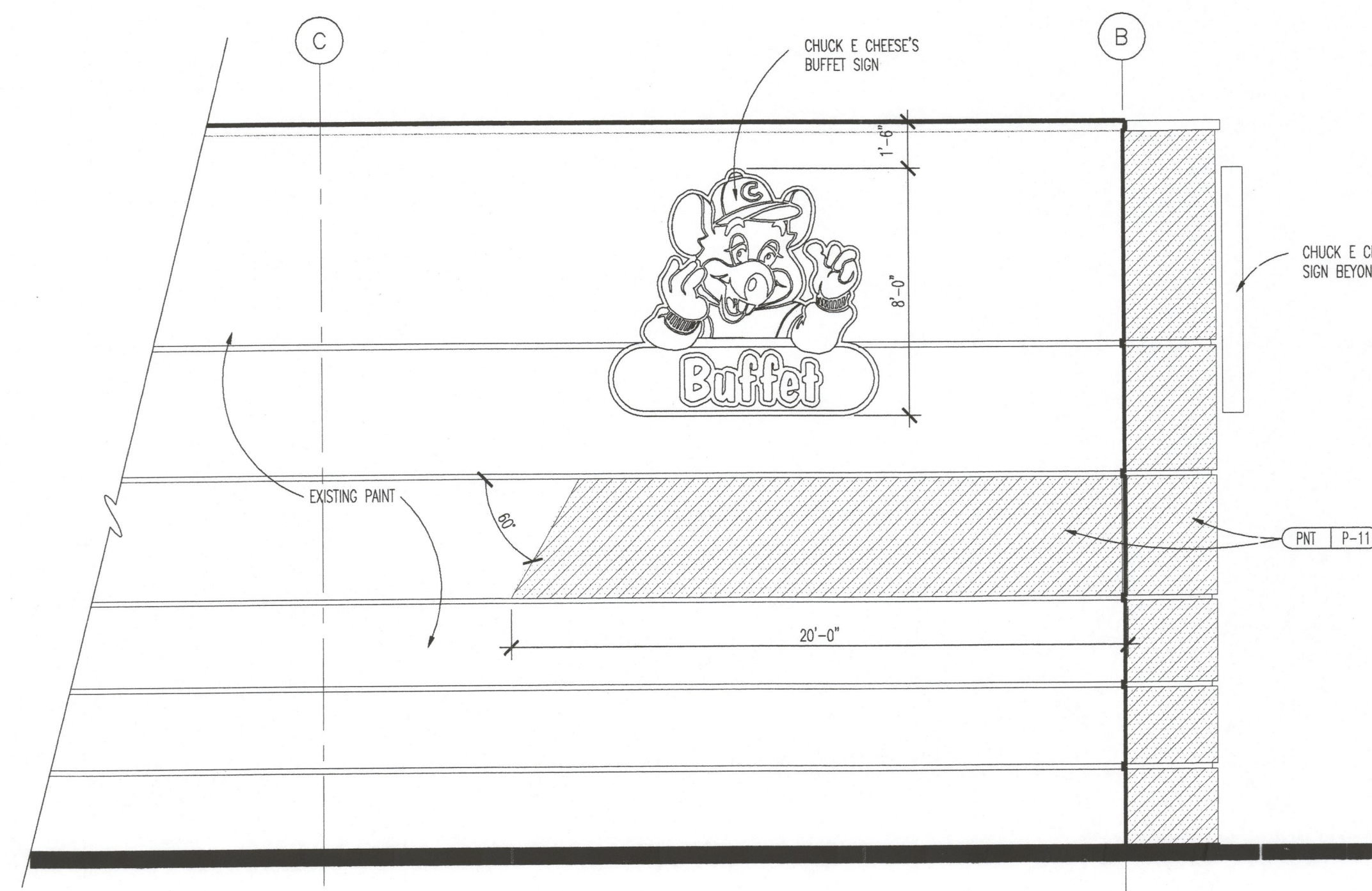
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01 WEST ELEVATION
SCALE: 1/4"=1'-0"



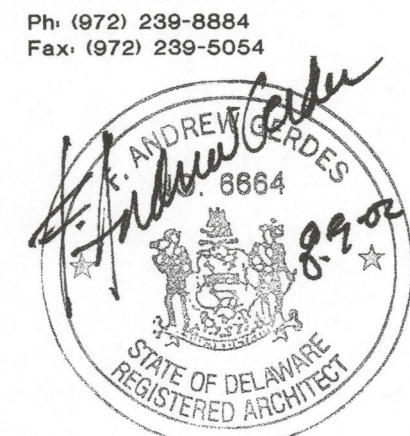
02 NORTH ELEVATION
SCALE: 1/4"=1'-0"

MAT./FINISH SCHEDULE

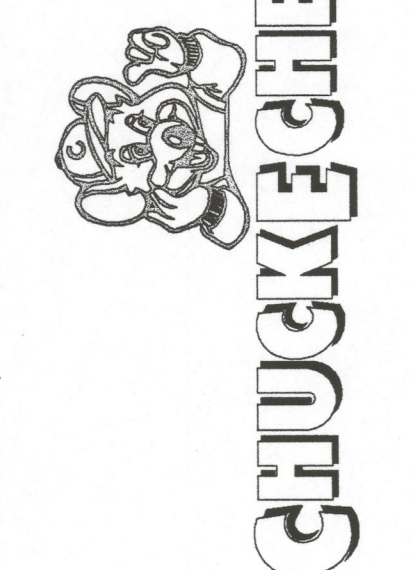
MATERIAL	DESCRIPTION
WOOD 1	WOOD FLOORING
WOOD 2	WOOD
CPT	CARPET
CT	CERAMIC TILE
QT	QUARRY TILE
GYP BD 1	5/8" TYPE "X" GYPSUM BOARD (HEAVY TEXTURE)
GYP BD 2	5/8" TYPE "X" WATER RESISTIVE GYPSUM BOARD
GYP BD 3	5/8" TYPE "X" GYPSUM BOARD
FRP	FIBERGLASS REINFORCED PLASTIC PANELS
ACT	ACOUSTICAL CEILING TILE
PLAM	PLASTIC LAMINATE
SLO SURF	SOLID SURFACING
SST	STAINLESS STEEL
MTFF	METAL FLASHING
MTIF	SHEET METAL
HM	HOLLOW METAL
ALSF	ALUMINUM STOREFRONT
PNT	PANT
STAIN	STAIN
STONE	STONE
CONC	CONCRETE
GL	GLASS
CEM BACK BD	CEMENT BACKING BOARD
INSUL	INSULATION
PLAS	EXTERIOR SMOOTH COAT STEEL TRONELLED PLASTER/STUCCO 1/8" FINISH COAT OVER 1/2" FIBER REINFORCED STUCCO OVER TWISTED WIRE MESH (DIAMOND WALL) OVER (1) LAYER STUCCO WRAP BURNISHED AND MOTTLED FINISH. TINT COLOR TO MATCH PAINT CALLOUT. REFER TO OMEGA PRODUCTS INTERNATIONAL FOR MANUFACTURER'S SPECS (CBO EVALUATION SERVICES REPORT #4004).
03300	CONCRETE
E	EXPOSED CONCRETE - SEAL WITH EPOXY
06410	PLASTIC LAMINATE
PL-1	WILSONART "HOLLYBERRY" RED CRYSTAL D-307-90
PL-2	WILSONART "PEPPER DUST" D-327-6
09260	GYPSUM DRYWALL
GP-1	TO PAINT (refer to Painting for texture)
GP-2	NOT USED
09310	PORCELAN FLOOR TILE
PT-1	TYPE: FLOOR TILE SIZE: 12" x 12" TILES: CROSSVILLE #850 GRAPHITE UPS - UNPOLISHED SMOOTH IN DRY AREAS BASE: 6" HIGH COVE - CROSSVILLE GRAPHITE GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
PT-2	TYPE: FLOOR TILE SIZE: 12" x 12" TILES: CROSSVILLE #850 GRAPHITE CP-1 - ABRASIVE USED IN WET LOCATIONS GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
09330	QUARRY TILE
QT-1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: DALTILE TEXTURES "DIABLO RED" T-01 BASE: 6" HIGH COVE - DALTILE TEXTURES "DIABLO RED" GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
QT-2	TYPE: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS) SIZE: 6" x 6" TILES: DALTILE TEXTURES "DIABLO RED" T-01 ABRASIVE BASE: 6" HIGH COVE - DALTILE TEXTURES "DIABLO RED" GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
09510	ACOUSTICAL LAY-IN CEILINGS
LT-1	ARMSTRONG #1761HA, FINE FISSURED SECOND LOOK II 24" x 48" x 3/4" WITH XL - HAZE(HA), 15/16" EXPOSED TEE SYSTEM
LT-2	ARMSTRONG #670 VINYL FACED G.L.P. 24" x 48" x 1/2" WITH PRELUDE XL WHITE(WH) GRID
LT-5	ARMSTRONG #1830 WH, FINE FISSURED 24" x 48" x 5/8" WITH XL - WHITE(WH), 15/16" EXPOSED TEE SYSTEM
09678	RESILIENT BASE
B-1	4" HIGH COVE - BURKE 642P - "CHARCOAL"
09697	CARPET
C-1	HARBINGER CARPET "CE PASSION" SUPPLIED BY OWNER
C-2	HUEGA SUPERFLOOR "S" 18" x 18" TILE BY J. ARNOLD 214-742-1745 COLOR: 1359 (AT ENTRY AREA ONLY)
09900	PAINT/STAINS All products listed are available thru Sherwin Williams. National Account Manager Marvin Buckland 214-657-9181.
P-1	VERIFY ALL EXISTING COLORS PRIOR TO STARTING ANY WORK TO 214-621-9100. ALL PRODUCTS LISTED SHALL COMPLY WITH STATE VOC GUIDELINES Hollyberry Red custom formula: used on exposed metal columns and older non-prefinished front doors (not for new powder-coat finish entrance doors). KROMIK metal primer Base: Industrial Enamel Safety Red B54R28 B54R28-Hollyberry Red-Ind-Enamel-Safety Red Base, Base Colorant, QV-40, QR-32, TW-16 Note: On older remodeled stores some interior doors also use this color in those cases, prep for re-paint with scuff sand (2 coats)
P-2	Lightmoves SW-1053 used on upper walls, fire exit doors and frames. Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Paint ProMar 200 latex semi-glass enamel B31W200 (2 coats) Note: On fire exit doors and frames Paint DTM acrylic coating B66-2003 (only in cases of rust or slick surface scuff sand and use KROMIK universal primer)
P-3	Windsor Gray SW1040 used on interior door frames DTM acrylic coating B66-2003(scuff sand and primer only as required)
P-4	Oyster Shell exterior custom color matching dryvit specification Laxon A24W300 formula base A-100 (satin/2 coats minimum) DTM B66 W201-Oyster Shell same for A-100, Y3-9+01, R2+11, B1+1 on metals and flashing use KROMIK primer & DTM paint.
P-5	Morning Haze custom match to marlite of same name used only on remodels (not for new construction) NM primer (1 coat) formula base B34W200 alkyd enamel (semi glass), B31W201-Morning Haze, B1-36+1, Y3-22+1, R2-7, NW-5
P-6	Pancake exterior custom color matching dryvit specification Laxon A24W300 formula base A-100 (satin/2 coats) DTM B66 W201-Pancake-Same for A-100, Y3-28,R2-4,B1-1
P-7	Haze custom match to Armstrong, ceiling grid and tile of same name. (Used on remodels only, not for new construction) B30 W 401, N1-2Y, P1-4
P-8	SW-1038 Architectural Grey Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Paint ProMar 200 latex semi-glass enamel B31W200 (2 coats)
P-9	SW-1631 Dreamy Peach Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Paint ProMar 200 latex semi-glass enamel B31W200 (2 coats)
P-10	NOT USED
P-11	SW-6605 Charisma
09971	FRP
W-1	#P151 - "LIGHT GREY" Fiberglass Reinforced Polyester Panels - MARLITE
W-2	09 THK EMBOSSED Fiberglass Reinforced Panels - KEMLITE - FRP WHITE
09972	DISPLAY WALL PANELS
W-4	1/4" MARLITE NO. 5446-S2V "MORNING HAZE"
W-5	"VISPLAY WALL" DISPLAY WALL BY MARLITE - #764 "CRYSTAL GREY", MONOFINISH SERIES CONTACT MARLITE/BILL McCauley @ 817-481-4554



Architecture / Development
Parkway Plaza I
1410 Dallas Parkway
Suite 100
Dallas Texas 75240
Ph: (972) 238-8884
Fax: (972) 239-6054



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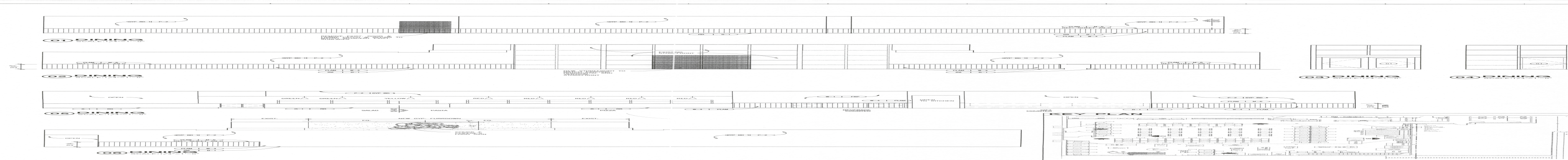
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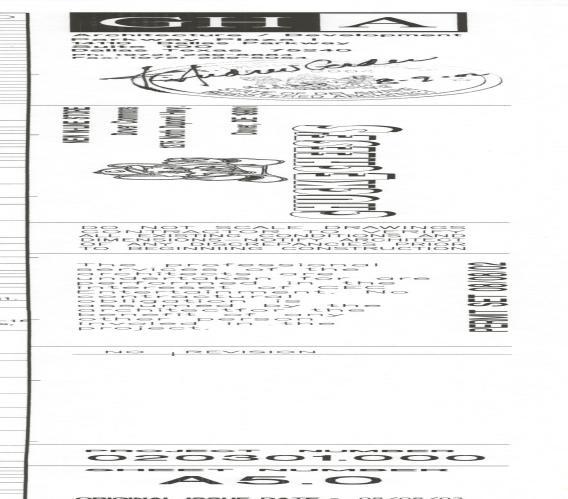
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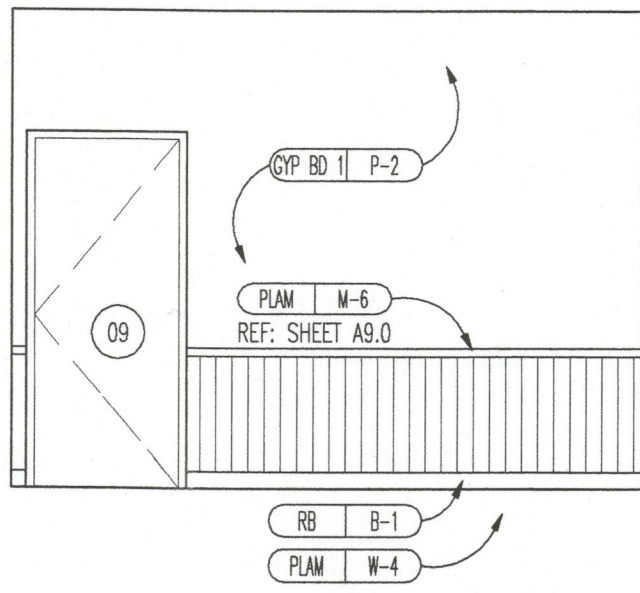
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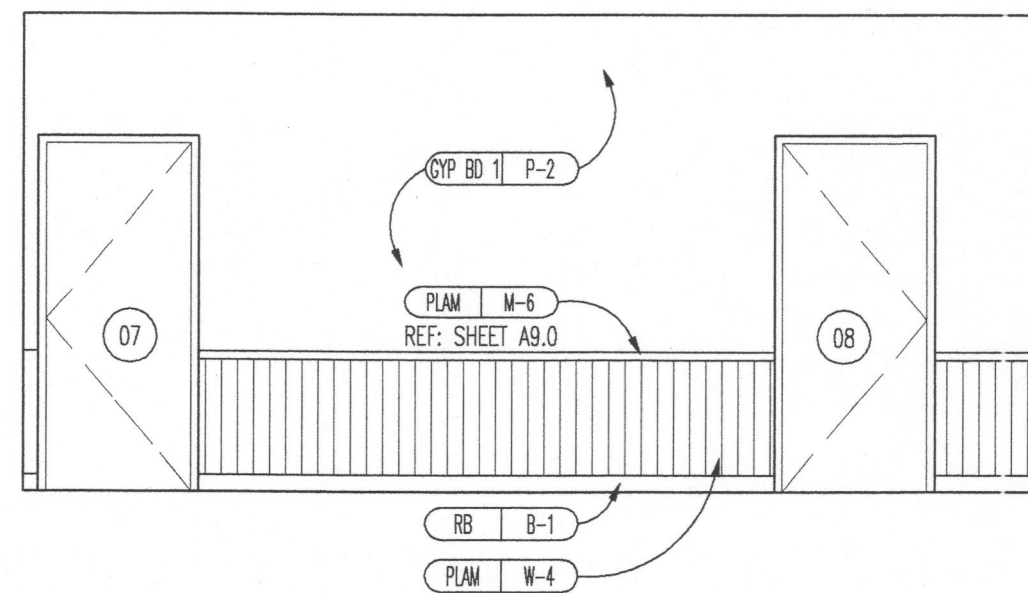


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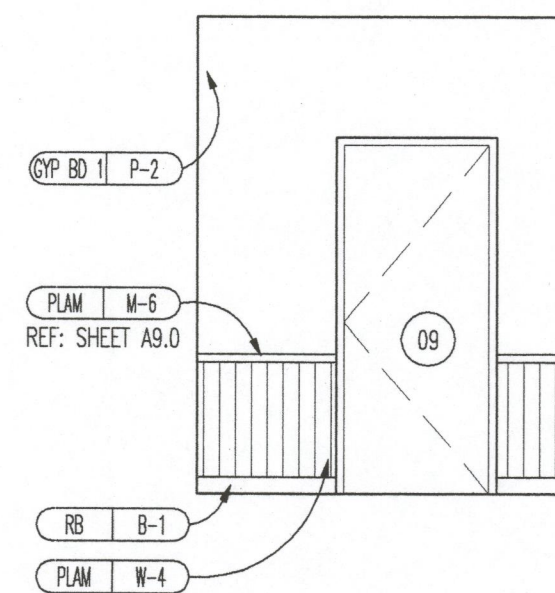




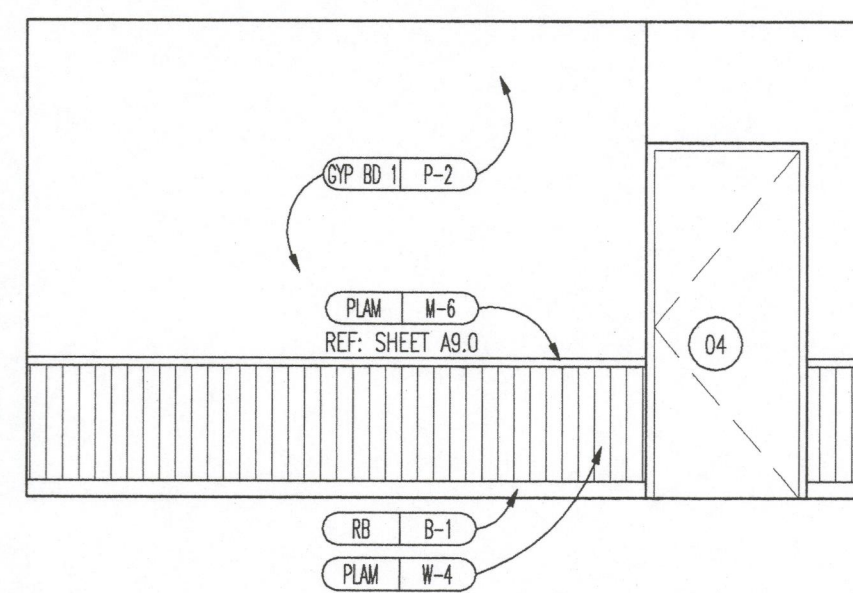
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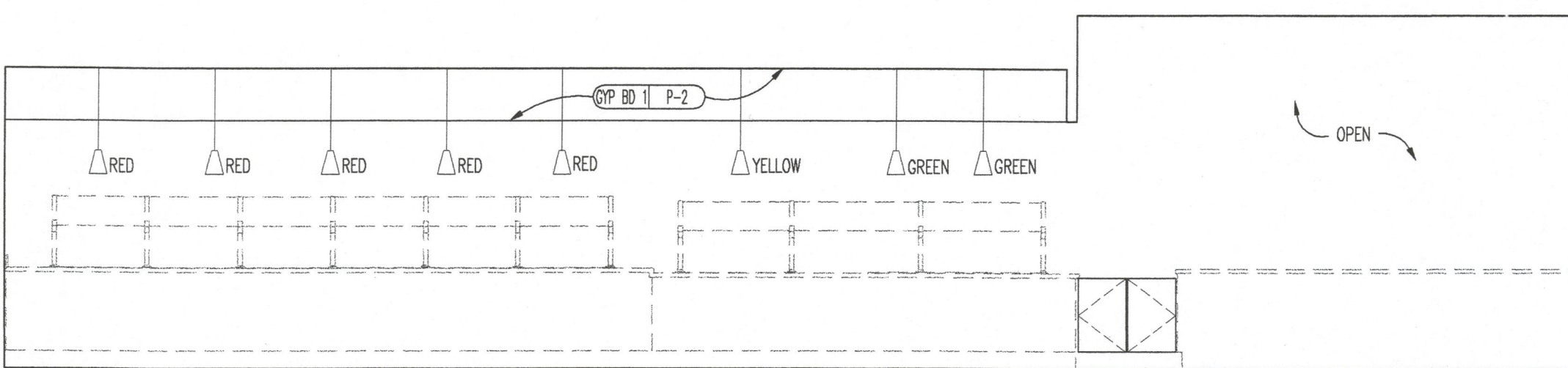
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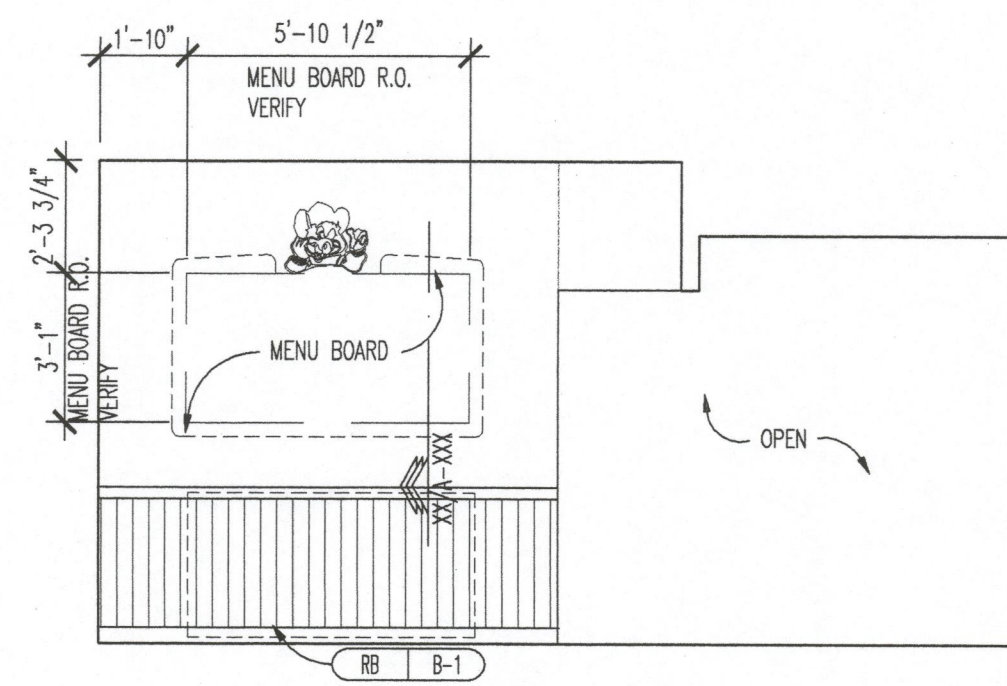
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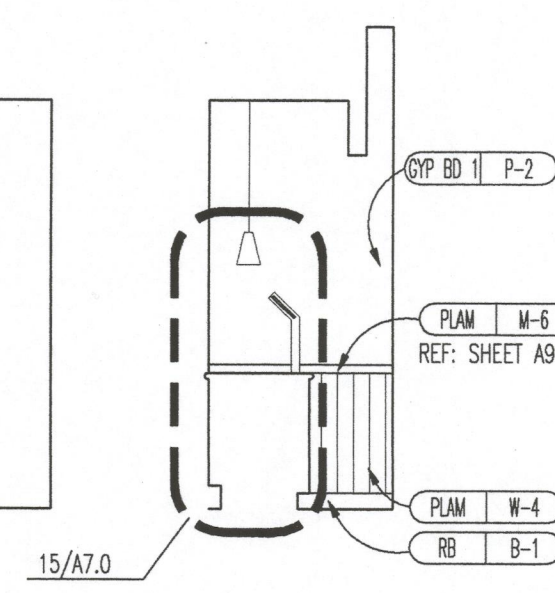
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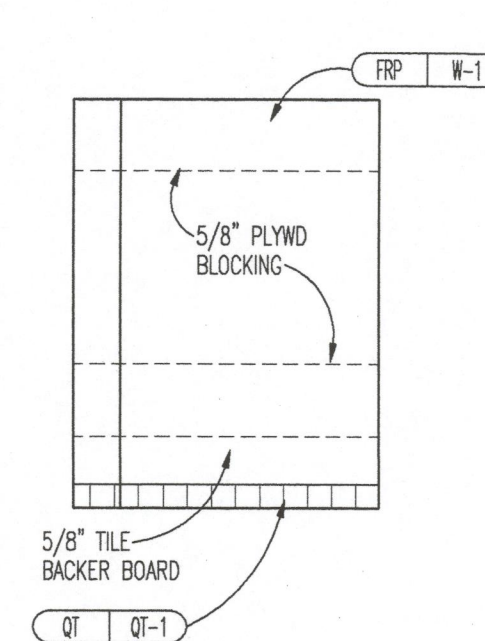
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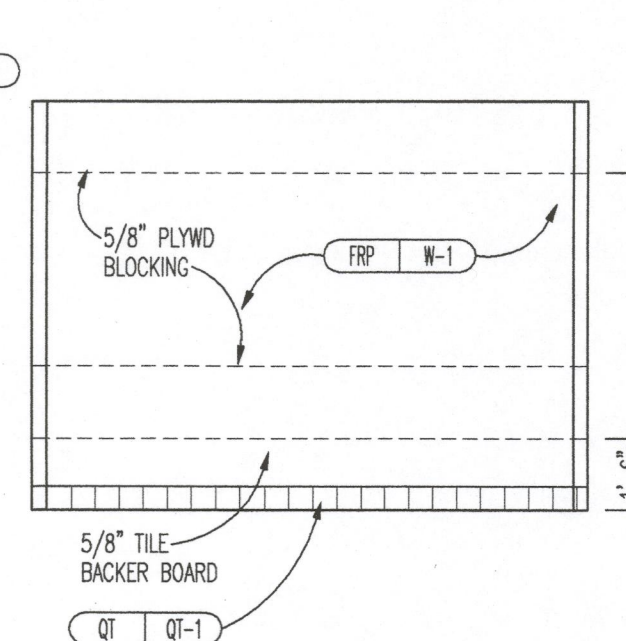
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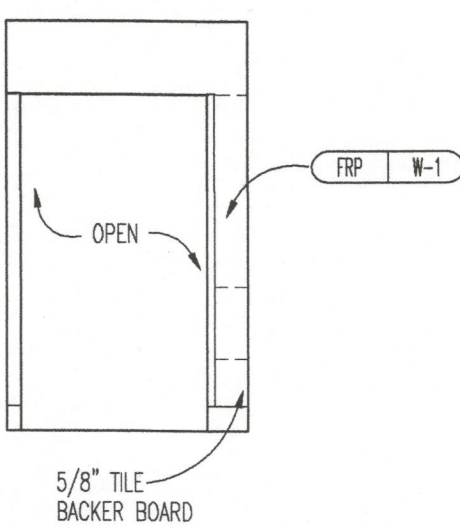
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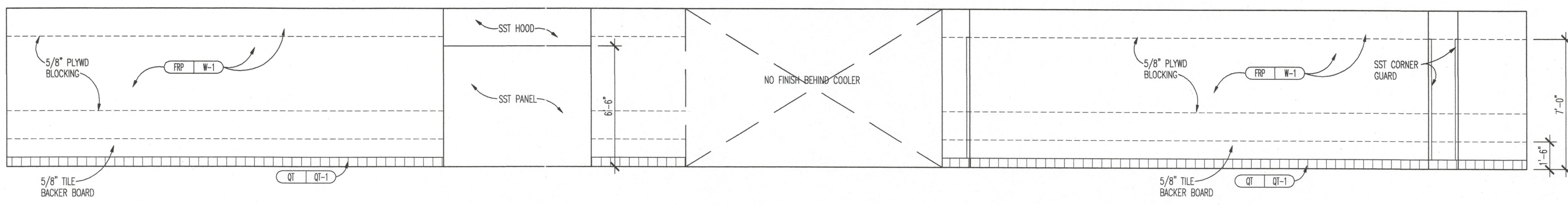
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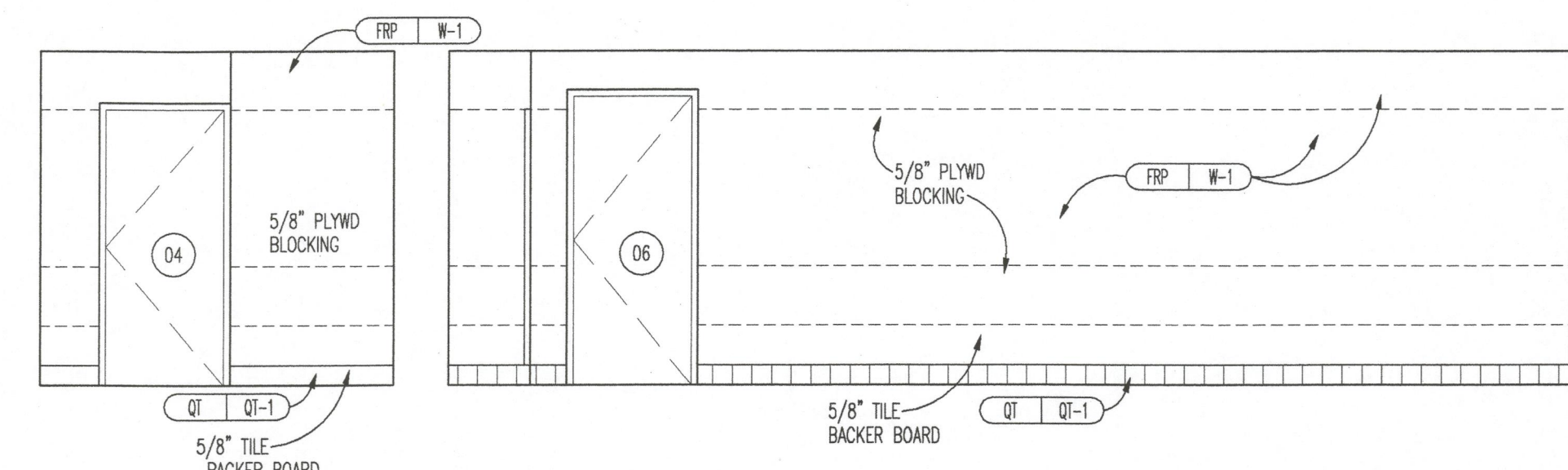
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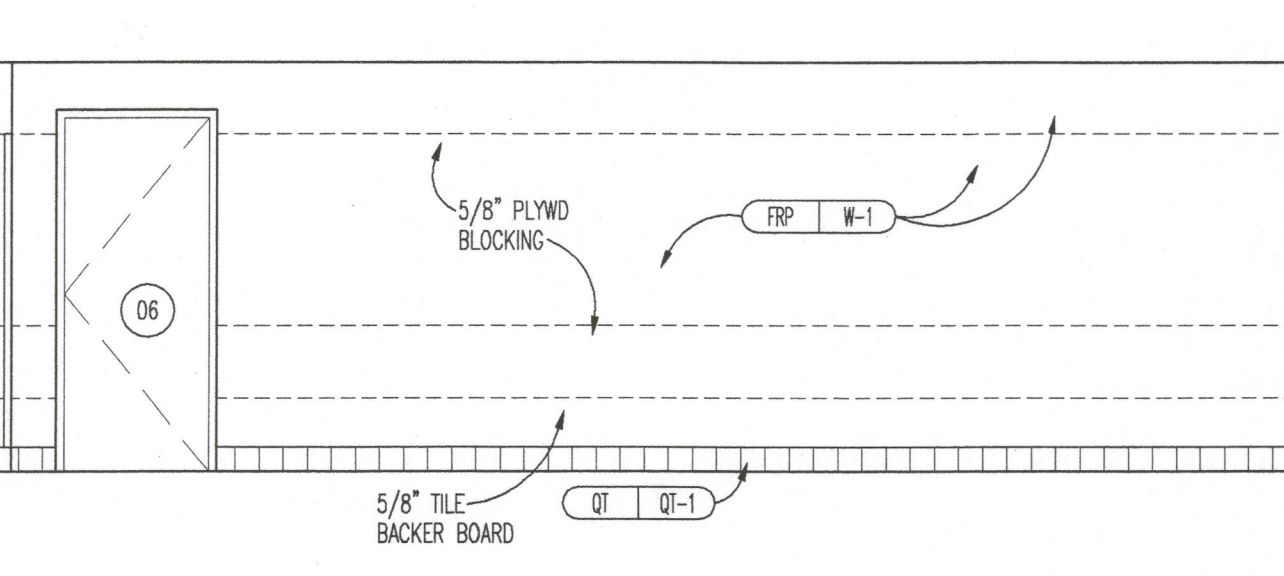
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11 KITCHEN
SCALE: 1/4"=1'-0"

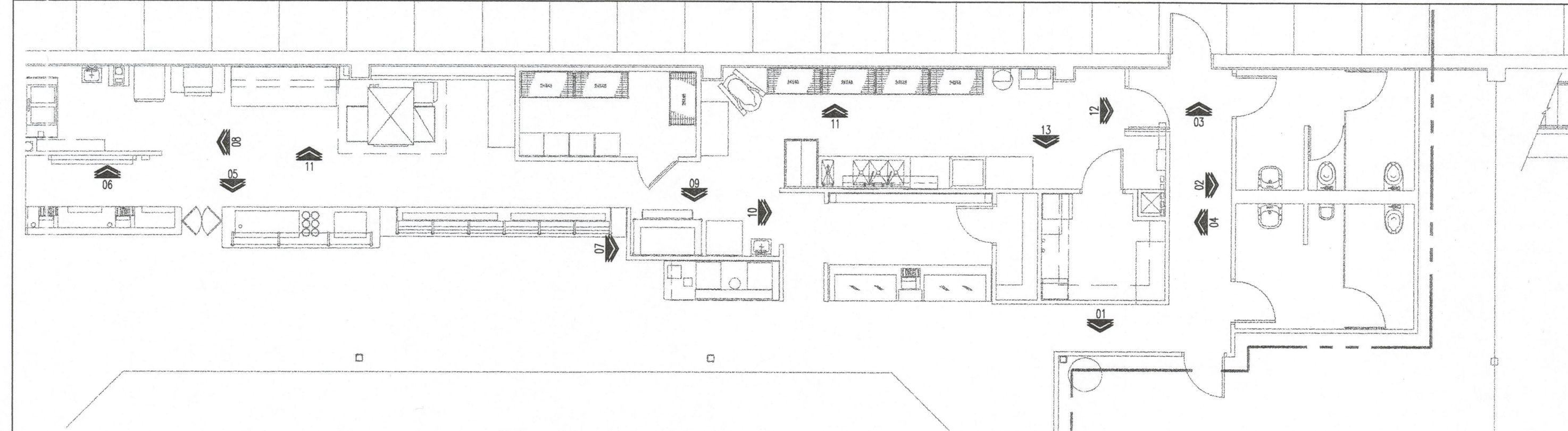


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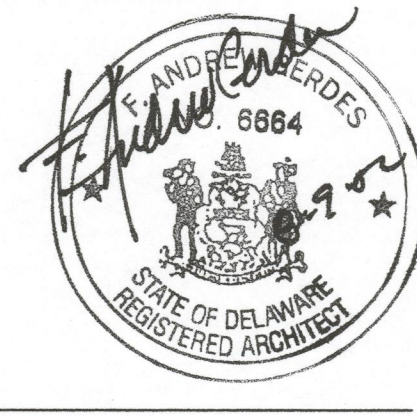
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SCALE: 1/4"=1'-0"

KEY PLAN



MAT./FINISH SCHEDULE

MATERIAL	DESCRIPTION
WOOD 1	WOOD FLOORING
WOOD 2	WOOD
CPT	CARPET
CT	CERAMIC TILE
QT	QUARRY TILE
GYP BD 1	5/8" TYPE "X" GYPSUM BOARD (HEAVY TEXTURE)
GYP BD 2	5/8" TYPE "X" WATER RESISTIVE GYPSUM BOARD
GYP BD 3	5/8" TYPE "X" GYPSUM BOARD
FRP	FIBERGLASS REINFORCED PLASTIC PANELS
ACT	ACOUSTICAL CEILING TILE
PLM	PLASTIC LAMINATE
SLS SURF	SOLID SURFACING
SST	STAINLESS STEEL
MTIF	METAL FLASHING
MTL	SHEET METAL
HM	HOLLOW METAL
ALSF	ALUMINUM STOREFRONT
PNT	PAINT
STAIN	STAIN
STONE	STONE
CONC	CONCRETE
GL	GLASS
CEM BACK BD	CEMENT BACKING BOARD
INSUL	INSULATION
PLAS	EXTERIOR SMOOTH COAT STEEL TROWELLED PLASTER/STUCCO 1/8" FINISH COAT OVER 1/2" FIBER REINFORCED STUCCO OVER TWISTED WIRE MESH (DIAMOND WALL) OVER (1) LAYER STUCCO WRAP BURNISHED AND MOTTLED FINISH. TINT COLOR TO MATCH PAINT CALLOUT. REFER TO OMEGA PRODUCTS INTERNATIONAL FOR MANUFACTURER'S SPECS (CDO EVALUATION SERVICES REPORT #4004).
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PL-2	WILSONART "PEPPER DUST" D327-5
09260	GYPSUM DRYWALL
GP-1	TO PAINT (refer to Painting for texture)
GP-2	NOT USED
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PT-1	TYPE: FLOOR TILE SIZE: 12" x 12" TILES: CROSSVILLE #AB50 GRAPHITE UPS - UNPOLISHED SMOOTH IN DRY AREAS BASE: 6" HIGH COVE - CROSSVILLE GRAPHITE GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
PT-2	TYPE: FLOOR TILE SIZE: 12" x 12" TILES: CROSSVILLE #AB50 GRAPHITE CP-1 - ABRASIVE USED IN WET LOCATIONS GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
09330	QUARRY TILE
QT-1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: DALTILE TEXTURES "DIABLO RED" T-01 BASE: 6" HIGH COVE - DALTILE TEXTURES "DIABLO RED" GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
QT-2	TYPE: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS) SIZE: 6" x 6" TILES: DALTILE TEXTURES "DIABLO RED" T-01 ABRASIVE BASE: 6" HIGH COVE - DALTILE TEXTURES "DIABLO RED" GROUT: MFG. CUSTOM BUILDING PRODUCTS "CHARCOAL"
09510	ACOUSTICAL LAY-IN CEILINGS
LT-1	ARMSTRONG #1781HA, FINE FISSED SECOND LOOK II 24" x 48" x 3/4" WITH XL - HAZE(HA), 15/16" EXPOSED TEE SYSTEM
LT-2	ARMSTRONG #670 VINYL FACED G.L.P. 24" x 48" x 1/2" WITH PRELUDE XL WHITE(WH) GRID
LT-5	ARMSTRONG #1830 WH, FINE FISSED 24" x 48" x 5/8" WITH XL - WHITE(WH), 15/16" EXPOSED TEE SYSTEM
09678	RESILIENT BASE
B-1	4" HIGH COVE - BURKE 642P - "CHARCOAL"
09697	CARPET
C-1	HARBINGER CARPET "CEC PASSION" SUPPLIED BY OWNER
C-2	HUEGA SUPERFLOOR "S" 18" x 18" TILE BY J. ARNOLD 214-742-1745 COLOR: 1359 (AT ENTRY AREA ONLY)
09900	PAINT/STAINS All products listed are available thru Sherwin Williams. National Account Manager Marvin Buckland 214-657-9181. VERIFY ALL EXISTING COLORS PRIOR TO STARTING ANY WORK TO 214-821-9100. ALL PRODUCTS LISTED SHALL COMPLY WITH STATE VOC GUIDELINES. P-1 HOLLYBERRY Red custom formula: used on exposed metal columns and older non-prefinished front doors (not for new powder-coat finish entrance doors). KROMIK metal primer Base: Industrial Enamel Safety Red B54R38 B54R38-Hollyberry Red-Ind.Enamel-Safety Red Base, Base Colorant, QV-4Q, QR-32, TW-16 Note: On older remodeled stores some interior doors also use this color in those cases, prep for re-paint with scuff sand (2 coats) P-2 Lightmoves SW-1053 used on upper walls, fire exit doors and frames. Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Primer ProMar 200 latex primer B30W200 (2 coats) Note: On fire exit doors and frames Paint DTM acrylic coating B66-2003 (only in cases of rust or slick surface scuff sand and use KROMIK universal primer) P-3 Windsor Gray SW1040 used on interior door frames DTM acrylic coating B66-2003 scuff sand and primer only as required) P-4 Oyster Shell exterior custom color matching dryvit specification Luxon A24W300 formula base A-100 (satin/2 coats minimum) DTM B66 W201-Oyster Shell same for A-100, Y3-9+01, R2+11, B1+1 on metals and flashing use KROMIK primer & DTM paint. P-5 Morning Haze custom match to marlite of same name used only on remodels (not for new construction) XIM primer (1 coat) formula base B34W200 alkyd enamel (semi gloss), B31W201-Morning Haze, B1-36+1, Y3-22+1, R2-7, NW-5 P-6 Pancake exterior custom color matching dryvit specification Luxon A24W300 formula base A-100 (satin/2 coats) DTM B66 W201-Pancake-Same for A-100, Y3-28R2-4,B1-1 P-7 Haze custom match to Armstrong, ceiling grid and tile of same name. (Used on remodels only, not for new construction) B30 W 401, N1-2Y, P1-4 P-8 SW-1038 Architectural Grey Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Primer ProMar 200 latex primer B30W200 (2 coats) P-9 SW-1631 Dreamy Peach Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Primer ProMar 200 latex primer B30W200 (2 coats) P-10 NOT USED P-11 SW-6605 Charisma 09971 FRP W-1 #P151 - "LIGHT GREY" Fiberglass Reinforced Polyester Panels - MARLITE W-2 .09 THK EMBOSSED Fiberglass Reinforced Panels - KCM/LITE - FRP WHITE 09972 DISPLAY WALL PANELS W-4 1/4" MARLITE NO. 5446-S2V "MORNING HAZE" W-5 "VISPLAY WALL" DISPLAY WALL BY MARLITE - #764, "CRYSTAL GREY", MONOFINISH SERIES CONTACT MARLITE/BILL McCauley @ 817-481-4554



NEW IN-LINE STORE
Dover Commons
1275 North Dupont Hwy.
Dover, DE 19901



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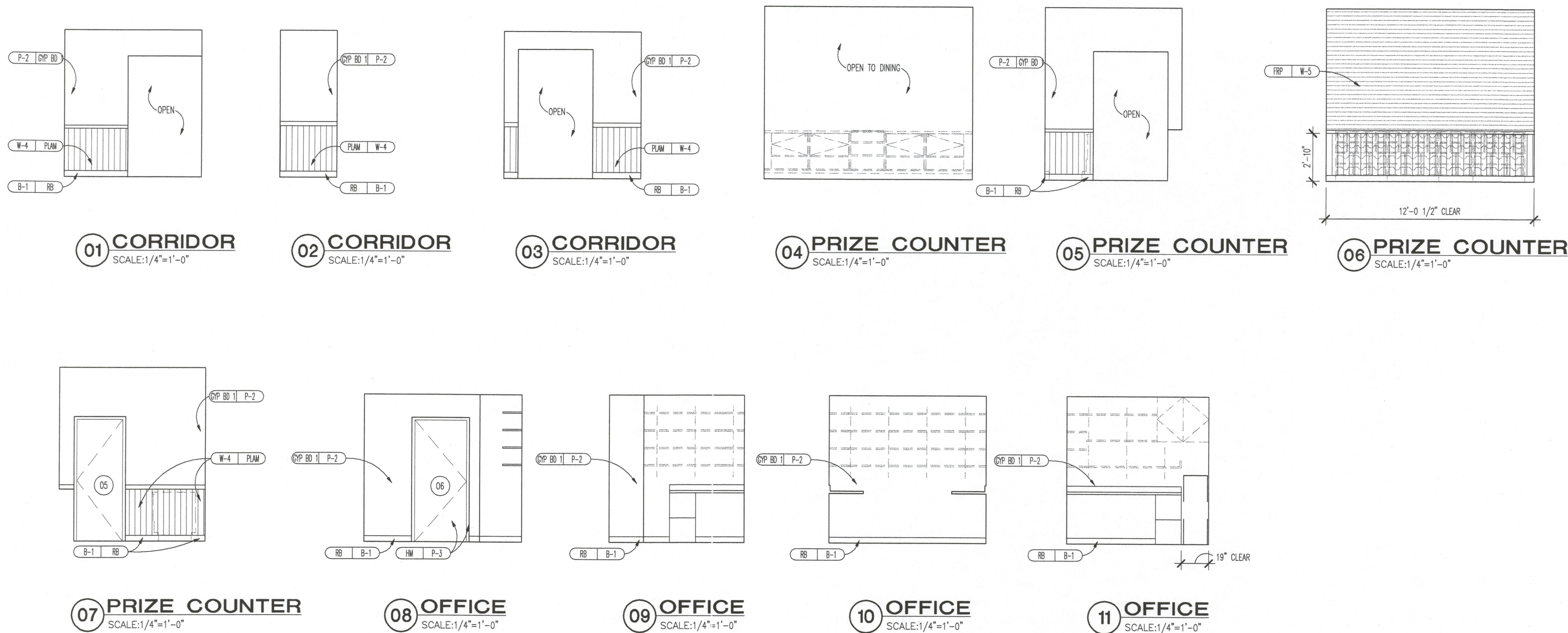
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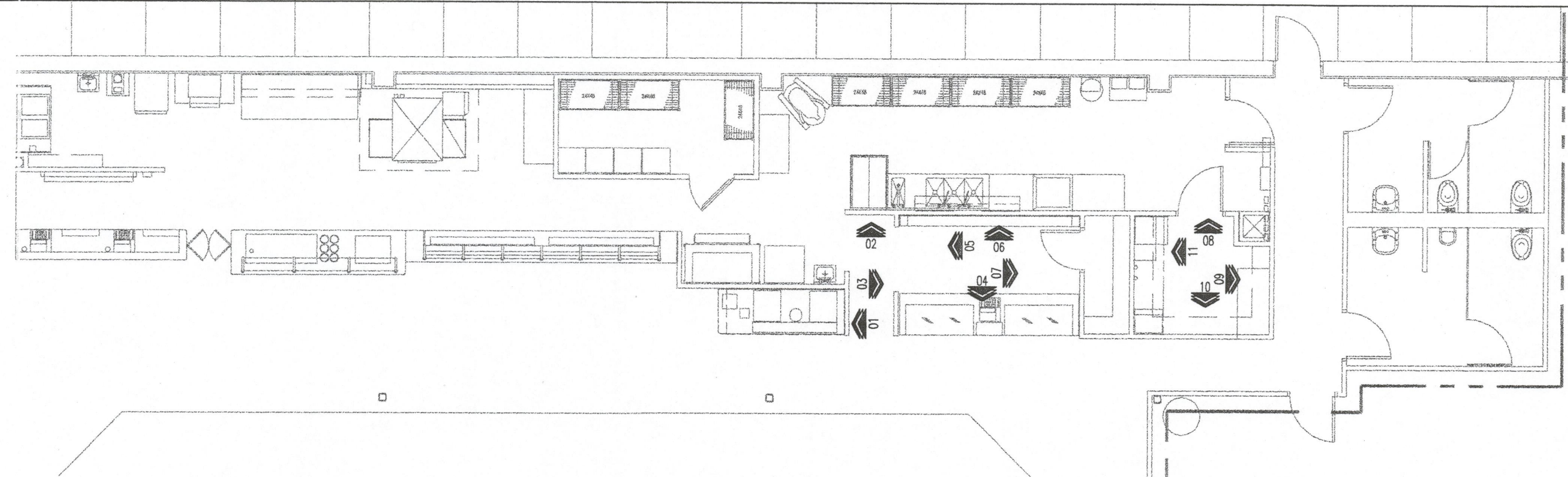
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ORIGINAL ISSUE DATE - 08/08/02
DATE OF THIS PRINTING - 08/08/02

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KEY PLAN

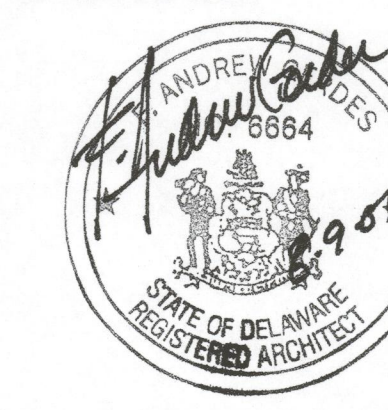


MAT./FINISH SCHEDULE

MATERIAL	DESCRIPTION
WOOD 1	WOOD FLOORING
WOOD 2	WOOD
CPT	CARPET
CT	CERAMIC TILE
QT	QUARRY TILE
GYP BD 1	5/8" TYPE 'X' GYPSUM BOARD (HEAVY TEXTURE)
GYP BD 2	5/8" TYPE 'X' WATER RESISTIVE GYPSUM BOARD
GYP BD 3	5/8" TYPE 'X' GYPSUM BOARD
FRP	FIBERGLASS REINFORCED PLASTIC PANELS
ACT	ACOUSTICAL CEILING TILE
PLAM	PLASTIC LAMINATE
SLS SURF	SOLID SURFACING
SST	STAINLESS STEEL
MET	METAL FLASHING
ML	SHEET METAL
HM	HOLLOW METAL
ALSF	ALUMINUM STOREFRONT
PNT	PAINT
STAIN	STAIN
STONE	STONE
CONC	CONCRETE
GL	GLASS
CEM BCK BD	CEMENT BACKING BOARD
INSUL	INSULATION
PLUS	EXTERIOR SMOOTH COAT STEEL TROWELLED PLASTER/STUCCO 1/8" FINISH COAT OVER 1/2" FIBER REINFORCED STUCCO OVER TWISTED WIRE MESH (DIAMOND WALL) OVER (1) LAYER STUCCO WRAP BURNISHED AND MOTTLED FINISH. TINT COLOR TO MATCH PAINT CALLOUT. REFER TO OMEGA PRODUCTS INTERNATIONAL FOR MANUFACTURER'S SPECS (CBO EVALUATION SERVICES REPORT #4004).
03300	CONCRETE
E	EXPOSED CONCRETE - SEAL WITH EPOXY
06410	PLASTIC LAMINATE
PL-1	WILSONART "HOLLYBERRY" RED CRYSTAL D-307-90
PL-2	WILSONART "PEPPER DUST" D327-6
09260	GYPSUM DRYWALL
GP-1	TO PAINT (refer to Painting for texture)
GP-2	NOT USED
09310	PORCELEAN FLOOR TILE
PT-1	TYPE: FLOOR TILE SIZE: 12" x 12" TILES: CROSSVILLE #AB50 GRAPHITE UPS - UNPOLISHED SMOOTH IN DRY AREAS BASE: 6" HIGH COVE - CROSSVILLE GRAPHITE GROUT: MFR. CUSTOM BUILDING PRODUCTS "CHARCOAL"
PT-2	TYPE: FLOOR TILE SIZE: 12" x 12" TILES: CROSSVILLE #AB50 GRAPHITE GP-1 - ABRASIVE USED IN WET LOCATIONS GROUT: MFR. CUSTOM BUILDING PRODUCTS "CHARCOAL"
09330	QUARRY TILE
QT-1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: DALTILE TEXTURES "DIABLO RED" T-01 BASE: 6" HIGH COVE - DALTILE TEXTURES "DIABLO RED" GROUT: MFR. CUSTOM BUILDING PRODUCTS "CHARCOAL"
QT-2	TYPE: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS) SIZE: 6" x 6" TILES: DALTILE TEXTURES "DIABLO RED" T-01 ABRASIVE BASE: 6" HIGH COVE - DALTILE TEXTURES "DIABLO RED" GROUT: MFR. CUSTOM BUILDING PRODUCTS "CHARCOAL"
09510	ACOUSTICAL LAY-IN CEILINGS
LT-1	ARMSTRONG #1761HA FINE FISSED SECOND LOOK II 24" x 48" x 3/4" WITH XL - HAZE(HA), 15/16" EXPOSED TEE SYSTEM
LT-2	ARMSTRONG #670 VINYL FACED G.L.P. 24" x 48" x 1/2" WITH PRELUC XL WHITE(WH) GRID
LT-5	ARMSTRONG #1830 WH FINE FISSED 24" x 48" x 5/8" WITH XL - WHITE(WH), 15/16" EXPOSED TEE SYSTEM
09678	RESILIENT BASE
B-1	4" HIGH COVE - BURKE 642P - "CHARCOAL"
09697	CARPET
C-1	HARBINGER CARPET "CEC PASSION" SUPPLIED BY OWNER
C-2	HUEGA SUPERFLOOR "S" 18" x 18" TILE BY J. ARNOLD 214-742-1745 COLOR: 1359 (AT ENTRY AREA ONLY)
09900	PAINT/STAINS All products listed are available thru Sherwin Williams. All products listed shall comply with state VOC guidelines.
P-1	Hollyberry Red custom formula: used on exposed metal columns and older KROMIK metal primer. Base: Industrial Enamel Safety Red B54R38 B54R38-Hollyberry Red-Ind.Enamel-Safety Red Base, Base Colorant, QV-40, QR-32, TW-16 Note: On older remodeled stores some interior doors also use this color in those cases, prep for re-paint with scuff sand (2 coats)
P-2	Lightmoves SW-1053 used on upper walls, fire exit doors and frames. Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Paint ProMar 200 latex semi-glass enamel B31W200 (2 coats) Note: On fire exit doors and frames Point DTM acrylic coating B66-2003 (only in cases of rust or slick surface scuff sand and use KROMIK universal primer)
P-3	Windsor Gray SW1040 used on interior door frames DTM acrylic coating B66-2003 scuff sand and primer only as required)
P-4	Oyster Shelexterior custom color matching dryvit specification Laxon A24W300 formula base A-100 (satin/2 coats minimum) DTM B66 W201-Oyster Shell same for A-100, Y3-9+01, R2+11, B1+1 on metals and flashing use KROMIK primer & DTM paint.
P-5	Morning Haze custom match to marlite of same name used only on remodels (not for new construction) XIM primer (1 coat) formula base B34W200 allyd enamel (semi glass), B31W201-Morning Haze, B1-36+1, Y3-22+1, R2-7, NW-5
P-6	Pancake exterior custom color matching dryvit specification Laxon A24W300 formula base A-100 (satin/2 coats) DTM B66 W201-Pancake-Same for A-100, Y3-28,R2-4,B1-1
P-7	Haze custom match to Armstrong, ceiling grid and tile of same name. (Used on remodels only, not for new construction) B30 W 401, N1-2Y, P1-4
P-8	SW-1038 Architectural Gray Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Paint ProMar 200 latex semi-glass enamel B31W200 (2 coats)
P-9	SW-1631 Dreamy Peach Drywall Texture medium orange peel (verify/approval) Drywall Primer ProMar 200 latex primer B30W200 (1 coat) Drywall Paint ProMar 200 latex semi-glass enamel B31W200 (2 coats)
P-10	NOT USED
P-11	SW-6605 Charisma
09971	FRP
W-1	#P151 - "LIGHT GREY" Fiberglass Reinforced Polyester Panels - MARLITE
W-2	.09 THK EMBOSSED Fiberglass Reinforced Panels - KEMUTE - FRP WHITE
09972	DISPLAY WALL PANELS
W-4	1/4" MARLITE NO. 5446-32V "MORNING HAZE"
W-5	"DISPLAY WALL" DISPLAY WALL BY MARLITE - #764 "CRYSTAL GREY", MONOFINISH SERIES CONTACT MARLITE/BILL McCauley @ 817-481-4554



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NEW IN-LINE STORE
Dover Commons
1275 North Dupont Hwy.
Dover, DE 19801



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The professional
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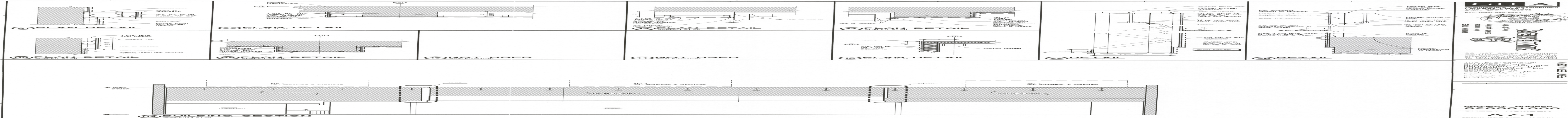
NO REVISION

PROJECT NUMBER
020301.000

SHEET NUMBER
A5.2

ORIGINAL ISSUE DATE - 08/08/02
DATE OF THIS PRINTING - 08/08/02

PERMIT SET 08/08/02



FURNITURE SCHEDULE

#	DESCRIPTION	QTY	FURN	INSL	#	DESCRIPTION	QTY	SEATS	FURN	INSL
CHAIRS										
C1	CHAIRS	80	O	G	T01	24"x27" BOOTH TABLE TOP - KIDDIE/SKILLS (NO SPLASH)	--	--	--	--
C2	CHAIRS	--	--	--	T02	24"x27" BOOTH TABLE TOP - KIDDIE/SKILLS	--	--	--	--
C3	CHAIRS	--	--	--	T03	42"x27" BOOTH TABLE TOP - KIDDIE/SKILLS	24	4 = 96	O	G
C4	CHAIRS	--	--	--	T04	42"x60"x27" TRANSITION BOOTH TABLE TOP - KIDDIE/SKILLS	4	6 = 24	O	G
BOOTH										
B01	BOOTH	--	--	--	T05	54"x27" BOOTH TABLE TOP - KIDDIE/SKILLS	--	--	--	--
B02	24" SINGLE BOOTH - KIDDIE/SKILLS	--	--	--	T06	60"x27" BOOTH TABLE TOP - KIDDIE/SKILLS	21	6 = 126	O	G
B03	24" DOUBLE BOOTH - KIDDIE/SKILLS	--	--	--	T07	24"x42"x27" TRANSITION BOOTH TABLE TOP - KIDDIE/SKILLS	8	3 = 24	O	G
B04	BOOTH	--	--	--	T08	50" x 27" BOOTH TABLE TOP - KIDDIE/SKILLS	--	--	--	--
B05	BOOTH	--	--	--						
B06	42" DOUBLE BOOTH - KIDDIE/SKILLS	19	O	G						
B07	42" SINGLE BOOTH - KIDDIE/SKILLS	4	O	G						
B08	50" DOUBLE BOOTH - KIDDIE/SKILLS	--	--	--						
B09	50" SINGLE BOOTH - KIDDIE/SKILLS	--	--	--						
B10	60" SINGLE BOOTH - KIDDIE/SKILLS	2	O	G						
B11	60" DOUBLE BOOTH - KIDDIE/SKILLS	12	O	G						
B12	BOOTH	--	--	--						
B13	BOOTH DIVIDERS/SIDE PANELS	21	O	G						
B14	BOOTH	--	--	--						
TOTAL SEATING							266			

GH A

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STATE OF DELAWARE
REGISTERED ARCHITECT

NEW IN-LINE STORE
Dover Commons
1275 North Dupont Hwy.
Dover, DE 19901

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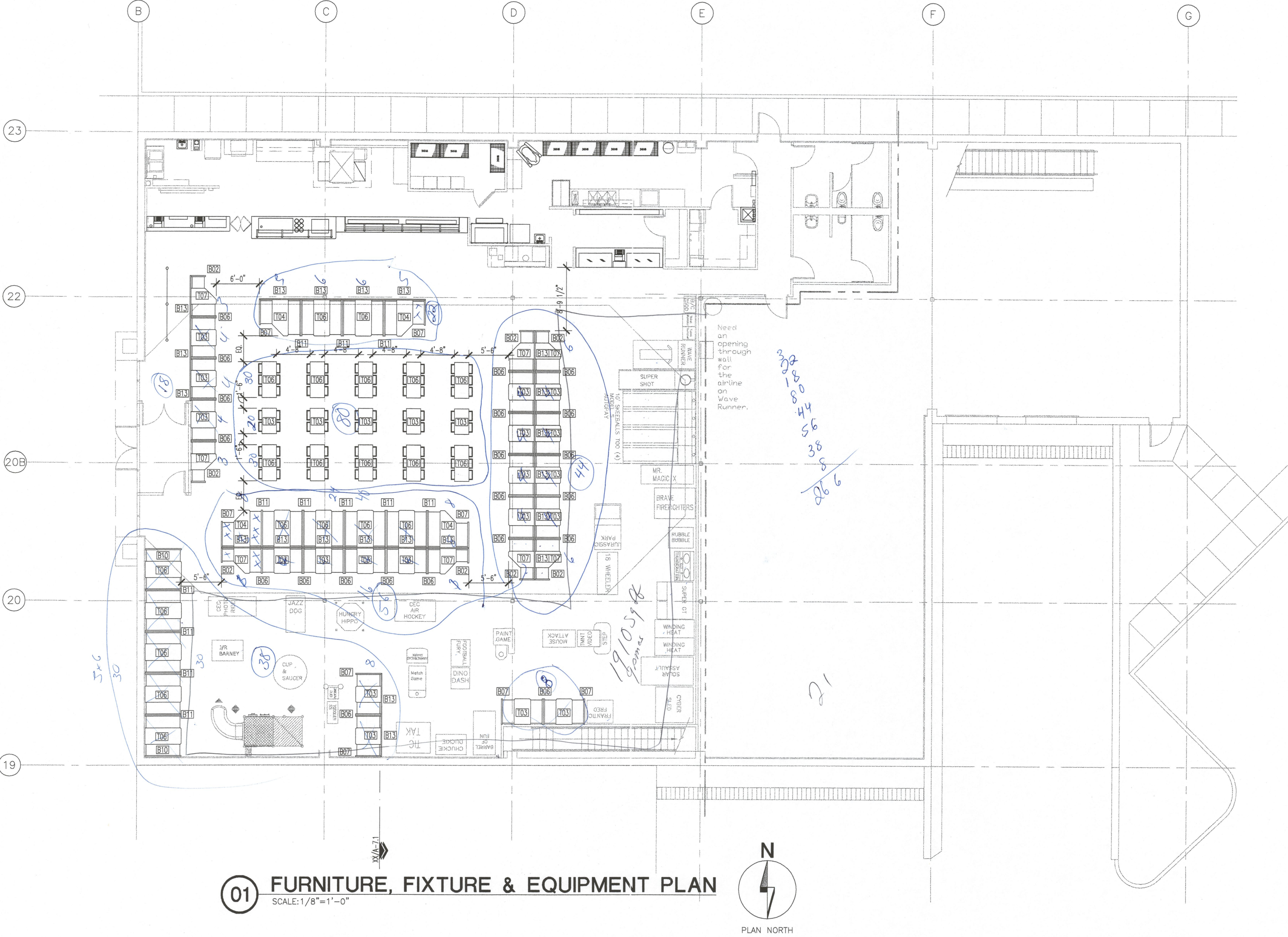
The professional services of the architects are undertaken for the interest of CEC Entertainment. No contractual obligation is assumed by the architect for the benefit of any other person involved in the project.

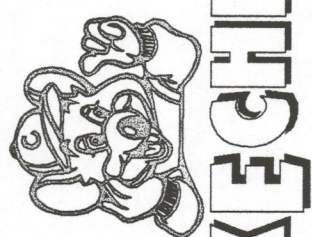
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PROJECT NUMBER
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Dover Commons
1275 North Dupont Hwy.
Dover, DE 19901

CHUCK ECHEVEREZ

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SHEET NUMBER

A9.1

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KITCHEN EQUIPMENT SCHEDULE

#	DESCRIPTION	QTY.	MANUF/MODEL	COMMENTS
K1	-	-	-	-
K2	SS REFRIGERATED SALAD PAN	1	WELLS RCP400	SUPPLIED INSTALLED IN MILLWORK/SUPPLY PUC & CONNECTS TO DRAIN AND POWER
K3	REACH-IN REFRIGERATOR	1	HOBART #NQA1	TRUE FOOD SERVICE - TS-25
K4	MICROWAVE	1	COMMERCIAL MICROWAVE	MOUNT UNDER PASTA WELL AS HIGH AS POSSIBLE
K5	-	-	-	-
K6	-	-	-	-
K7	COFFEE MAKER	1	WILBUR CURTIS #1DB	LOCATED ON SHELVING K8
K8	SS SHELF	-	CUSTOM 36"X36"	-
K9	SS WALL PANELING & BUMPER	1	CUSTOM	SS TRIM INSTALLED UP TO BOTTOM OF HOOD AND MAKE TABLE
K10	REFRIG. PIZZA MAKE TABLE	1	TRUE FOOD SERVICE - TPP-83	-
K11	-	-	-	-
K12	-	-	-	-
K13	DBL STACK PIZZA OVEN	1	LINCOLN IMPINGER-MODEL #1450	GAS/ELEC. CONNECTIONS
K14	EXHAUST HOOD	1	CAPTIVE AIRE #6624 VHT	W/ FAN, INCLUDES CURB, DUCTWORK BY G.C.
K15	-	-	-	-
K16	SS CUT TABLE	1	CUSTOM (36"X80")	-
K17	-	-	-	-
K18	-	-	-	-
K19	SS CORNER GUARDS	-	CUSTOM	INSTALL AT NON-PUBLIC KITCHEN CORNER
K20	-	-	-	-
K21	DUNNAGE RACK	1	AMCO #PA2436-8	AT OVEN
K22	-	-	-	-
K23	DOUGH MIXER	1	WELBILT-VARIMIXER MODEL #W60P	VERIFY CLOCKWISE ROTATION AND DISCONNECT @ 42" AFF.
K24	SS BUNNING TABLE	1	CUSTOM FABRICATED	INCLUDES CASTERS
K25	-	-	-	-
K26	-	-	-	-
K27	-	-	-	-
K28	SS DOUGH TABLE	1	24"X42"	INCLUDES CASTERS
K29	DOUGH PRESS	1	DOUGHPRO-PIZZAPRO-# DP110	OUTLET @ 50" A.F.F.
K30	-	-	-	-
K31	SS VEG. PREP SINK/TABLE	1	CUSTOM FABRICATED (108" L)	W/ SPRAY HEAD/FAUCET ASSEMBLY & STANDOFF
K32	-	-	-	-
K33	-	-	-	-
K34	-	-	-	-
K35	-	-	-	-
K36	-	-	-	-
K37	-	-	-	-
K38	-	-	-	-
K39	COOLER SHELVING	8	METROSEAL II	W/ CASTERS; (5) SHELVES (DUNNAGE ON BOTTOM)
K40	-	-	-	-
K41	-	-	-	-
K42	-	-	-	-
K43	-	-	-	-
K44	BUN RACKS, 20 SHELVES	5	NORMANDIE #403AE	INCLUDES CASTER
K45	ICE MACHINE	1	MANITOWOC-#JC-1395 (CONDENSER)	ICE BIN-#S-970
K46	10" DISH TABLE W/ 3 COMP. SINK	1	CUSTOM FABRICATED	INCLUDES SCRAP SINK, FAUCETS, SPRAYER & STANDOFF
K47	ANGLED SS SHELF	1	CUSTOM FABRICATED-84" SHELF	-
K48	DISHWASHER SANITIZER	1	JACKSON - TEMPSTAR	G.C. TO CONNECT ELECTRICAL & DRAIN
K49	ICE MACHINE FILTER ASSEMBLY	1	MANITOWOC TR1-L-25N	LOCATE TIGHT TO CEILING ABOVE CO2
K50	SS CLEAN DISH TABLE	1	CUSTOM FABRICATED	REFER TO PLAN FOR LENGTH
K51	2'-6" SS WALL SHELF	-	CUSTOM FABRICATED	MOUNT @ 5'-2" A.F.F., LEFT OF SCRAP SINK
K52	4'-0" SS WALL SHELF	-	CUSTOM FABRICATED	MOUNT @ 5'-2" A.F.F., LEFT OF SCRAP SINK
K53	5'-0" SS WALL SHELF	-	CUSTOM FABRICATED	MOUNT @ 5'-2" A.F.F., LEFT OF SCRAP SINK
K54	8'-0" SS WALL SHELF	1	CUSTOM FABRICATED	MOUNT @ 5'-2" A.F.F., LEFT OF SCRAP SINK
K55	5'-0" SS WALL SHELF	-	CUSTOM FABRICATED	MOUNT @ 5'-2" A.F.F., LEFT OF SCRAP SINK
K56	2'-6" SS WALL SHELF	1	CUSTOM FABRICATED	MOUNT @ 5'-2" A.F.F.
K57	-	-	-	-
K58	-	-	-	-
K59	-	-	-	-
K60	-	-	-	-
K61	-	-	-	-
K62	MOP SINK	1	FIAT #T5B-900	REFER TO PLUMBING SCHEDULE
K63	HAND SINK W/ FAUCET	2	ADVANCE #7PS-70, WK-316	W/ WRIST BLADES, SOAP, AND TOWEL DISPENSERS
K64	COTTON CANDY MACHINE	1	GOLD METAL #3005-SS	INCLUDE CABINET AND CASTER
K65	BUN RACKS, 20 SHELVES	5	NORMANDIE #403AE	INCLUDES CASTER
K66	ICE MACHINE	1	MANITOWOC-#JC-1395 (CONDENSER)	ICE BIN-#S-970
K67	BUN RACKS, 20 SHELVES	5	NORMANDIE #403AE	INCLUDES CASTER
K68	-	-	-	-
K69	-	-	-	-
K70	-	-	-	-
K71	-	-	-	-
K72	-	-	-	-
K73	-	-	-	-
K74	-	-	-	-
K75	-	-	-	-
K76	-	-	-	-
K77	-	-	-	-
K78	-	-	-	-
K79	-	-	-	-
K80	ANGLED SS SHELF	1	CUSTOM FABRICATED-84" SHELF	-
K81	-	-	-	-
K82	SS SHELF	1	METRO 18"X18"	-
K83	ICE MACHINE FILTER ASSEMBLY	1	MANITOWOC TR1-L-25N	LOCATE TIGHT TO CEILING ABOVE CO2
K84	-	-	-	-
K85	-	-	-	-

O - OWNER
G - GENERAL CONTRACTOR
K - KITCHEN EQUIPMENT SUPPLIER
M - MILLWORK SUPPLIER
E - ELECTRICAL
V - VENDOR

MISCELLANEOUS

#	DESCRIPTION	QTY.	MANUF/MODEL	COMMENTS
X01	SODA/ICE DISPENSER	2	"COKE" VENDOR	G.C. TO SUPPLY POWER
X02	CARBINATOR W/ SS SHELF	1	"COKE" VENDOR	G.C. TO SUPPLY POWER, WATER
X03	BAG & BOX RACK	1	"COKE" VENDOR	SET UNDER CARBONATOR
X04	TEA DISPENSER	-	LANCER	-
X05	WATER FILTER SYSTEM	-	-	-
X06	BULK CO2 TANK	1	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK
X07	HELIUM TANK	-	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK
X08	-	-	-	-
X09	SAFE	1	MCGUNN QD 1021	REQUIRES OUTLET @ 18" A.F.F.
X10	FILE CABINET	2	-	TWO DRAWER LEGAL IN BOTH MANAGERS & TECH OFFICE
X11	-	-	-	-
X12	TOKEN DISPENSERS	2	SPT	PROVIDE POWER
X15	-	-	CUSTOM (36"X80")	-
X16	RUBBER TRASH CART	1	EDON	-
X17	-	-	-	-
X18	ROPE & STANTION PACKAGE	5	LAVI	FIELD VERIFY NUMBER OF POLES AND HEAD REQ'D (NOT CORE DRILLED)
X21	BALLON HANGER	1	-	-
X22	MOP & BROOM HANGERS	5	EDON J293	SEE DETAIL
X23	WINDOW BLINDS	-	VIMCO	FIELD VERIFY # NEEDED (MANUAL OPERATION)
X24	ECOLAB SYSTEM	1	ECOLAB	MOUNTS @ DISHWASHER & MOP SINK (G.C. TO COORDINATE)
X25	SECURITY SYSTEM	1	-	G.C. TO COORDINATE INSTALLATION
X26	-	-	-	-
X27	-	-	-	-
X28	CAN OPENER	1	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE
X29	KNIFE SHARPENER	1	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE
X30	TRAINING AIDKIT, SIGNAGE	1 SET	-	COORDINATE W/ TRAINING MGR. TO LOCATE
X31	-	-	-	-
X32	COTTON CANDY HANGER	2	PROGRESSIVE/CUSTOM	WALL MOUNTED
X33	-	-	-	-
X34	MENU BOARD	1	CUSTOM	WALL MOUNTED

MILLWORK

#	DESCRIPTION	QTY.	MANUF/MODEL	COMMENTS
M1	FRONT COUNTER ASSEMBLY	1	MIDWEST/CUSTOM	INCLUDES: ORDER, SALAD, GIFT COUNTERS
M2	-	-	-	-
M3	PRIZE CANDY & SHELVING	1	MIDWEST/CUSTOM	INCLUDES: SLATWALL HANGERS
M4	-	-	-	-
M5	BEVERAGE COUNTER	1	MIDWEST/CUSTOM	SS TOP
M6	PREF. CHAIR RAIL, MARLITE TRIM	1	MIDWEST/CUSTOM	SOFT MAPLE - 250-300 LIN. FT.
M7	PREF. WOOD BASE	1	MIDWEST/CUSTOM	SOFT MAPLE - 250-300 LIN. FT.
M8	-	-	-	-
M9	-	-	-	-
M10	-	-	-	-
M11	MANG'R DESK W/CABINETS	1 SET	MIDWEST/CUSTOM	SEE ELEVATION
M12	-	-	-	-
M13	TECH WK. BENCH W/ CABINETS	1 SET	MIDWEST/CUSTOM	SEE ELEVATION
M14	-	-	-	-
M15	EMP. BRK. CNTR. & UPPER CAB. 1 SET	1	MIDWEST/CUSTOM	SEE ELEVATION
M16	COSTUME HANGERS	1	MIDWEST/CUSTOM	-
M17	-	-	-	-
M18	-	-	-	-
M19	-	-	-	-
M20	EMP. COAT RACK/STO. UNIT	1	MIDWEST/CUSTOM	-

O - OWNER
G - GENERAL CONTRACTOR
K - KITCHEN EQUIPMENT SUPPLIER
M - MILLWORK SUPPLIER
E - ELECTRICAL
V - VENDOR

#	DESCRIPTION	QTY.	MANUF/MODEL	COMMENTS
V1	-	-	-	-
V2	-	-	-	-
V3	-	-	-	-
V4	-	-	-	-
V5	-	-	-	-
V6	-	-	-	-
V7	-	-	-	-
V8	-	-	-	-
V9	-	-	-	-
V10	-	-	-	-
V11	-	-	-	-
V12	-	-	-	-
V13	-	-	-	-
V14	-	-	-	-
V15	-	-	-	-
V16	-	-	-	-
V17	-	-	-	-
V18	-	-	-	-
V19	-	-	-	-
V20	-	-	-	-
V21	-	-	-	-
V22	-	-	-	-
V23	-	-	-	-
V24	-	-	-	-
V25	-	-	-	-
V26	-	-	-	-
V27	-	-	-	-
V28	-	-	-	-
V29	-	-	-	-
V30	-	-	-	-
V31	-	-	-	-
V32	-	-	-	-
V33	-	-	-	-
V34	-	-	-	-
V35	-	-	-	-
V36	-	-	-	-
V37	-	-	-	-
V38	-	-	-	-
V39	-	-	-	-
V40	-	-	-	-
V41	-	-	-	-
V42	-	-	-	-
V43	-	-	-	-
V44	-	-	-	-
V45	-	-	-	-
V46	-	-	-	-
V47	-	-	-	-
V48	-	-	-	-
V49	-	-	-	-
V50	-	-	-	-
V51	-	-	-	-
V52	-	-	-	-
V53	-	-	-	-
V54	-	-	-	-
V55	-	-	-	-
V56	-	-	-	-
V57	-	-	-	-
V58	-	-	-	-
V59	-	-	-	-
V60	-	-	-	-
V61	-	-	-	-
V62	-	-	-	-
V63	-	-	-	-
V64	-	-	-	-
V65	-	-	-	-
V66	-	-	-	-
V67	-	-	-	-
V68	-	-	-	-
V69	-	-	-	-
V70	-	-	-	-
V71	-	-	-	-
V72	-	-	-	-
V73	-	-	-	-
V74	-	-	-	-
V75	-	-	-	-
V76	-	-	-	-
V77	-	-	-	-
V78	-	-	-	-
V79	-	-	-	-
V80	-	-	-	-
V81	-	-	-	-
V82	-	-	-	-
V83	-	-	-	-
V84	-	-	-	-
V85	-	-	-	-
V86	-	-	-	-
V87	-	-	-	-
V88	-	-	-	-
V89	-	-	-	-
V90	-	-	-	-
V91	-	-	-	-
V92	-	-	-	-
V93	-	-	-	-
V94	-	-	-	-
V95	-	-	-	-
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V99	-	-	-	-
V100	-	-	-	-

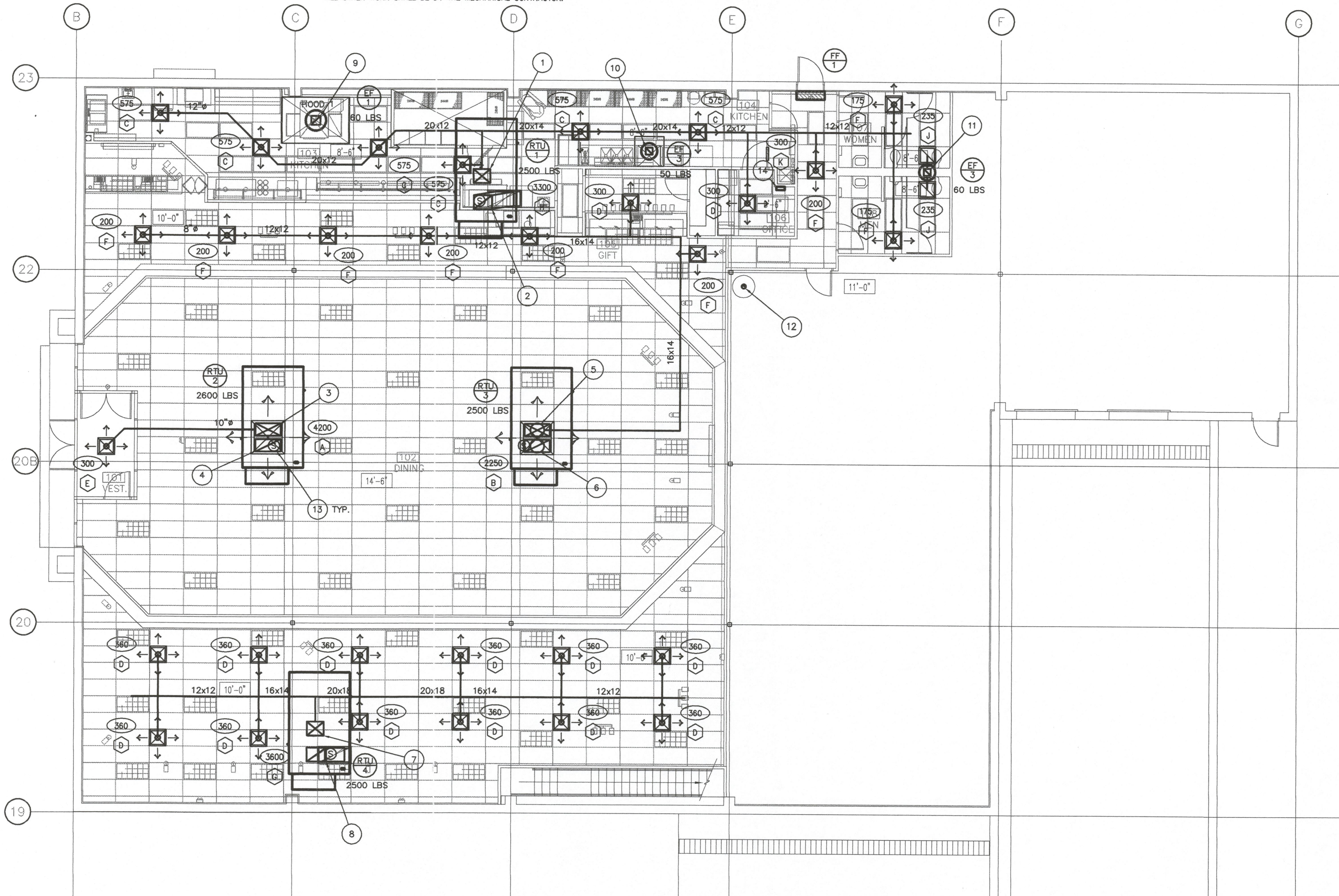
O - OWNER
G - GENERAL CONTRACTOR
K - KITCHEN EQUIPMENT SUPPLIER
M - MILLWORK SUPPLIER
E - ELECTRICAL
V - VENDOR

	FURNISH	INSTALL	HOOK UP	START	BLK'D
	O/M	G/E	G/E/P	-	-
		-	-	-	-
	O/M	G	-	-	-
		-	-	-	-
	O/M	G	P/G	-	-
	O	-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
	O/M	G	-	-	X
		-	-	-	-
	O/M	G	-	-	X
		-	-	-	-
	O/M	G	-	-	X
		-	-	-	-
		-	-	-	-
		-	-	-	-
	O/M	G	-	-	-
		-	-	-	-

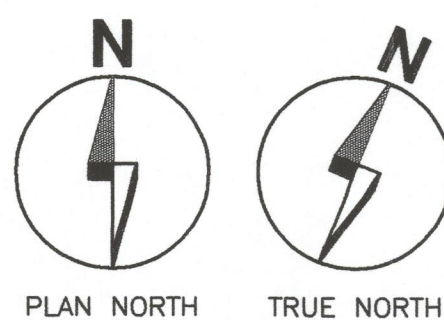
GENERAL NOTES:

- THE MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLINGS, JOINTS, VENTS, PIPING OR EQUIPMENT.
- ALL ROOFTOP EQUIPMENT SHALL HAVE MANUFACTURER SUPPLIED ROOF CURBS AND PIPE SEALS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES, BUT IS NOT LIMITED TO REFRIGERANT LINES, ETC.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FANS OR PLUMBING VENTS.
- PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
- ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 3'-0" WITH 2" WIDE GALV. STEEL BANDS WITH A MINIMUM OF ONE PER EACH SECTION OF FLEXIBLE DUCT.
- NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILINGS.

- ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHTING LAYOUTS AS REQUIRED.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR. INSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED.
- ALL SUPPLY AND RETURN AIR DEVICES SHALL BE PAINTED AS REQUIRED BY THE OWNER.
- PROVIDE EACH AIR CONDITIONING UNIT WITH DUCT MOUNTED SMOKE DETECTOR IN THE SUPPLY AND RETURN DUCTS, CAPABLE OF SHUTTING DOWN ITS RESPECTIVE AIR CONDITIONING UNIT UPON ACTIVATION. ALL LINE VOLTAGE WIRING AND CONDUIT SHALL BE BY THE ELECTRICAL CONTRACTOR AND ALL OTHER WORK SHALL BE BY THE MECHANICAL CONTRACTOR.



PLAN NORTH FOR ROOM FINISH SCHEDULE ONLY REFER TO SITE PLAN FOR TRUE NORTH



01 MECHANICAL FLOOR PLAN

SCALE: 1/8"=1'-0"

NOTES BY SYMBOL 'O'

- 24x20 SUPPLY AIR DUCT UP THRU ROOF TO RTU-1. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 26x20 RETURN AIR DUCT UP THRU ROOF TO RTU-1. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 28x18 SUPPLY AIR DUCT UP THRU ROOF TO RTU-2. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 28x18 RETURN AIR DUCT UP THRU ROOF TO RTU-2. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 18"Ø SUPPLY AIR DUCT UP THRU ROOF TO RTU-3. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 18"Ø RETURN AIR DUCT UP THRU ROOF TO RTU-3. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 24x20 SUPPLY AIR DUCT UP THRU ROOF TO RTU-4. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 28x20 RETURN AIR DUCT UP THRU ROOF TO RTU-4. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.
- 13x13 HEAT-ONLY EXHAUST DUCT UP THRU ROOF TO EF-1.
- 7x7 DISHWASH EXHAUST DUCT UP THRU ROOF TO EF-2. DUCT TO BE 18 GA. ALUMINUM WELDED LIQUID TIGHT. OFFSET AS REQUIRED TO MISS STRUCTURE.
- 10x10 TOILET EXHAUST DUCT UP THRU ROOF TO EF-3.
- 6"Ø WATER HEATER FLUE UP THRU ROOF. OFFSET AS REQUIRED. TERMINATE WITH APPROVED ROOF CAP.
- DUCT MOUNTED TEMPERATURE SENSOR CONNECTED TO CARRIER COMFORTLINK CONTROL PANEL.
- PROPOSED LOCATION OF CARRIER COMFORT LINK CONTROL PANEL. COORDINATE EXACT LOCATION WITH CHUCK-E-CHEESE CONSTRUCTION MANAGER.

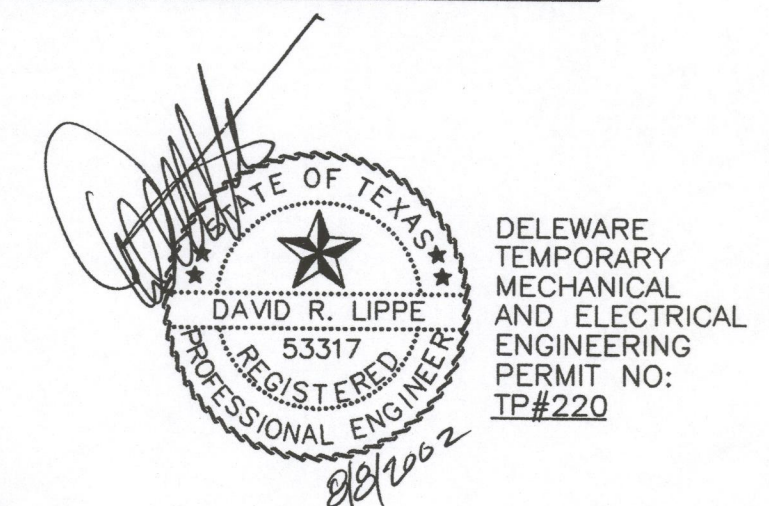
CONSTRUCTION DOCUMENTS WILL MEET OR EXCEED ENERGY REQUIREMENTS OF 1998 M.E.C. (MODEL ENERGY CODE)

LANDLORD NOTES:

- REMOVE EXISTING ROOFTOP UNITS. CONTACT MALL OPERATIONS MANAGER FOR DISPOSITION. PATCH/REPAIR ROOF OPENINGS. ALL ROOF WORK TO BE BY LANDLORD'S ROOFING CONTRACTOR.
- G.C. TO PROVIDE AND INSTALL ALL NEW STEEL FOR ROOF STRUCTURE TO SUPPORT NEW ROOFTOP EQUIPMENT AS REQUIRED BY STRUCTURAL ENGINEER.

ALL ROOF TOP EQUIPMENT LOCATIONS ARE TO BE FIELD VERIFIED AND COORDINATED WITH THE LANDLORD'S TENANT COORDINATOR BY GEN. CONT. PRIOR TO MAKING ANY ROOF PENETRATIONS OR SETTING ANY ROOF TOP EQUIPMENT. LOCATE ALL EXHAUST FANS A MINIMUM OF 10'-0" FROM ANY LANDLORD OR ADJACENT TENANT OUTSIDE AIR INTAKE.

HOOD EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER NFPA 96, 1994 EDITION AND CITY OF DOVER BUILDING AND FIRE CODES.



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CHUCK-E-CHEESE'S

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OF 3 SHEETS

ORIGINAL ISSUE DATE - 08/08/02
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ROOFTOP UNIT SCHEDULE

MARK	MFG'R	MODEL	SUPPLY CFM	SUPPLY FAN H.P.	EXT. S.P.	O/A CFM	COOLING BTUH		HEATING BTUH		ELECTRICAL						E.E.R.	OPER. WEIGHT LBS	ZONE SERVED	REMARKS		
							COOLING TOTAL	COOLING SENSIBLE	HEATING INPUT	HEATING OUTPUT	COMP. NO.	COMP. RLA	FAN NO.	FAN FLA	EA.	VOLT					Ø	MCA
RTU 1	CARRIER	48HG014	4300	3.7	0.6"	1000	158,000	116,000	296,000	242,000	2	19.2	4	1.5	208	3	65.0	70	11.6	2500	KITCHEN	SEE NOTES
RTU 2	CARRIER	48HG016	4500	3.7	0.6"	700	183,000	126,000	400,000	328,000	3	16.7	4	1.5	208	3	76.0	80	11.5	2600	ENTRY DINING	SEE NOTES
RTU 3	CARRIER	48HG014	3750	3.7	0.6"	700	155,000	108,000	296,000	242,000	2	19.2	4	1.5	208	3	65.0	70	11.6	2500	DINING	SEE NOTES
RTU 4	CARRIER	48HG014	4300	3.7	0.6"	700	158,000	116,000	296,000	242,000	2	19.2	4	1.5	208	3	65.0	70	11.6	2500	GAMES DINING	SEE NOTES

- NOTES:
 1. UNITS SELECTED AT 80°F DB, 67°F WB, 105°F OUTDOOR AMBIENT.
 2. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER.
 3. PROVIDE UNITS WITH LOW AMBIENT CONTROL, FACTORY DISCONNECT, 110V CONVENIENCE OUTLET, COMFORTLINK CONTROL PANEL WITH REMOTE SENSORS AND FACTORY ROOF CURB.
 4. UNITS TO BE PROVIDED WITH FACTORY MOUNTED SMOKE DETECTORS FOR SUPPLY AND RETURN.

FAN SCHEDULE

MARK	MFG'R	MODEL	CFM	EXT. S.P.	TYPE	SERVING	ELECTRICAL			OPER. WEIGHT LBS	REMARKS
							H.P.	VOLT	Ø		
EF 1	SEE NOTES	DU8SHFA	1100	0.50"	CENT.	PIZZA HOOD	1	120	1	60	PROVIDE WITH HINGE KIT, ROOF CURB W/ VENTED EXTENSION, DISCONNECT.
EF 2	SEE NOTES	DU30HFA	350	0.75"	CENT.	DISHWASH HOOD	1/4	120	1	50	PROVIDE WITH ROOF CURB, DISCONNECT AND EPOXY COATING INTERLOCK WITH DISHWASH MACHINE, REFER TO ELECTRICAL DRAWINGS.
EF 3	ILG	CRDA 10C15	450	0.25"	CENT.	TOILETS	1/13	120	1	60	PROVIDE WITH ROOF CURB, DISCONNECT, BIRD SCREEN AND BACKDRAFT DAMPER
EF 4	MARS	36CH	2550	0.10"	CENT.	SERVICE DOOR	1/2	120	1	63	PROVIDE WITH DOOR MOUNT MICROSWITCH

- NOTES:
 1. EF-1 IS TO BE ELECTRICALLY INTERLOCKED WITH RTU-1. REFER TO ELECTRICAL DRAWINGS.
 2. FAN IS PART OF HOOD PACKAGE PROVIDED BY OWNER. CONTACT CAPTIVE-AIRE FOR PRICING.
 3.
 4.
 5.

AIR DISTRIBUTION

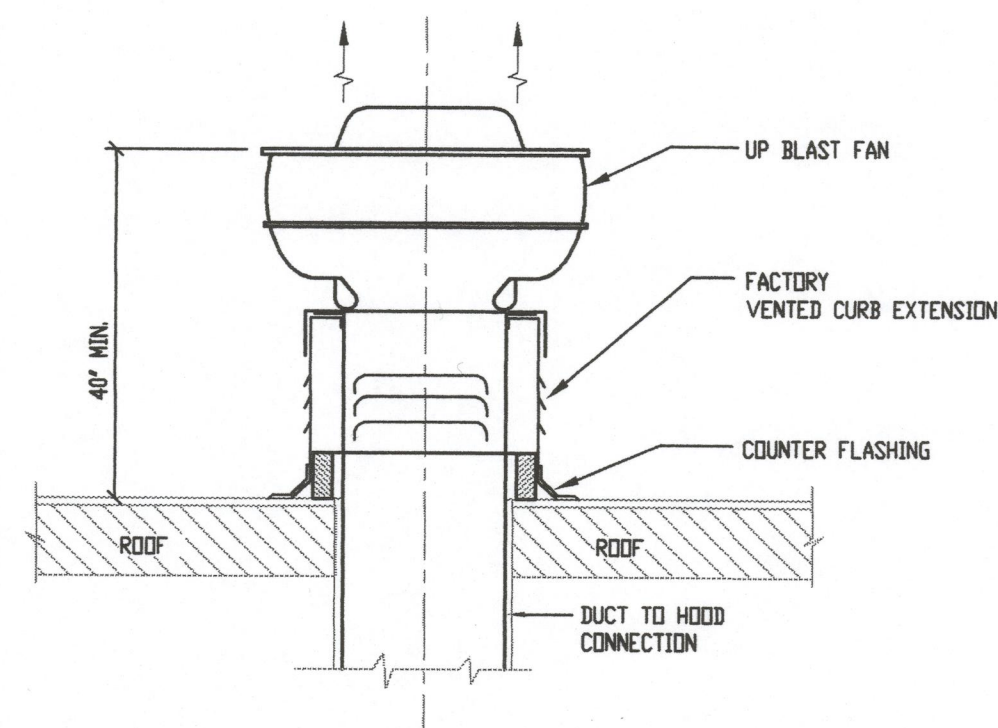
MARK	MFG'R	MODEL	FLOW RATE CFM	CORE VEL. FPM	N.C. LEVEL	MODULE SIZE	NECK SIZE	MOUNTING TYPE	DESCRIPT'N	NOTES
CFM A	RSI	01-530-22	SEE PLANS	500 MAX.	30 MAX.	48x36	28x18	LAY-IN	CONCENTRIC SUPPL/RETURN CLG. DIFFUSER	1
CFM B	RSI	01-530-18	SEE PLANS	500 MAX.	30 MAX.	48x24	18"Ø	LAY-IN	CONCENTRIC SUPPL/RETURN CLG. DIFFUSER	1
CFM C	TITUS	250-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	12"Ø	LAY-IN	4-WAY ADJ. LOUVER CLG. DIFFUSER	1
CFM D	TITUS	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"Ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER	1
CFM E	TITUS	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"Ø	SURFACE	4-WAY FIXED LOUVER CLG. DIFFUSER	1
CFM F	TITUS	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	8"Ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER	1
CFM G	TITUS	50F	SEE PLANS	500 MAX.	30 MAX.	48x24	28x20	LAY-IN	EGGCRATE RETURN GRILLE	1, 2
CFM H	TITUS	50F	SEE PLANS	500 MAX.	30 MAX.	48x24	26x20	LAY-IN	EGGCRATE RETURN GRILLE	1, 2
CFM I	TITUS	50F	SEE PLANS	500 MAX.	30 MAX.	24x24	10x8	LAY-IN	EGGCRATE EXHAUST GRILLE	1, 2
CFM J	TITUS	50F	SEE PLANS	500 MAX.	30 MAX.	24x24	10x8	LAY-IN	EGGCRATE EXHAUST GRILLE	1, 2
CFM K	TITUS	CT-700	SEE PLANS	500 MAX.	30 MAX.	18x18	16x16	SURFACE	SIGHT-PROOF DOOR GRILLE	1

- NOTES:
 1. PROVIDE WITH OFF-WHITE FINISH.
 2. PROVIDE WITH AG-35-AA DAMPER.

AIR BALANCE DATA

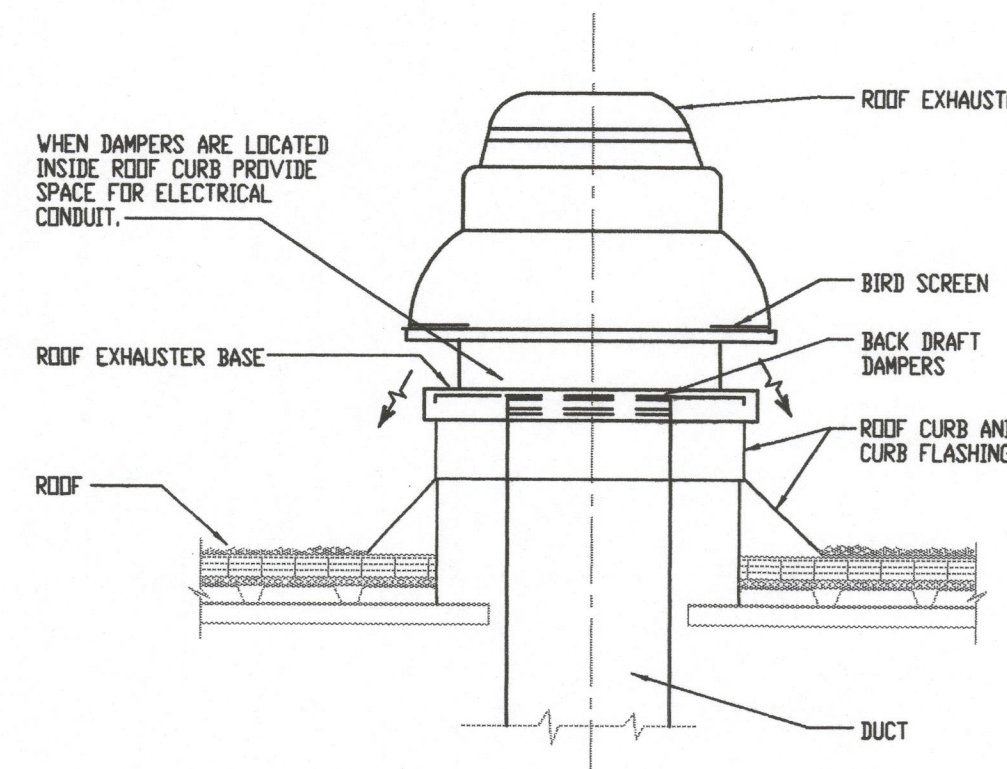
MARK	SUPPLY AIR-CFM	RETURN AIR-CFM	OUTSIDE AIR-CFM	EXHAUST AIR-CFM	BLDG. PRESS.
RTU 1	4300	3300	1000	—	+1000
RTU 2	4500	3800	700	—	+700
RTU 3	3750	3050	700	—	+700
RTU 4	4300	3600	700	—	+700
EF 1	—	—	—	1100	-1100
EF 2	—	—	—	350	-350
EF 3	—	—	—	470	-470
TOTAL	16850	13750	3100	1920	+1180

- NOTES:
 1. A COMPLETE TEST AND AIR BALANCE SHALL BE PERFORMED ON ALL AIR DISTRIBUTION EQUIPMENT. THE TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT, FULLY CERTIFIED TAB AGENCY THAT SPECIALIZES IN THE TESTING AND BALANCING OF AIR AND HYDRONIC SYSTEMS. THE TAB AGENCY SHALL SUBMIT TO THE OWNER (6) COPIES OF A WRITTEN REPORT WITHIN 30 DAYS AFTER THE INSPECTION IS COMPLETE. LIST ALL COMPLAINTS AND MALFUNCTIONS ENCOUNTERED AND INDICATE STEPS TAKEN OR NEEDED TO BE TAKEN TO CORRECT. (AIR BALANCE COMPANY FURNISHED BY OWNER)



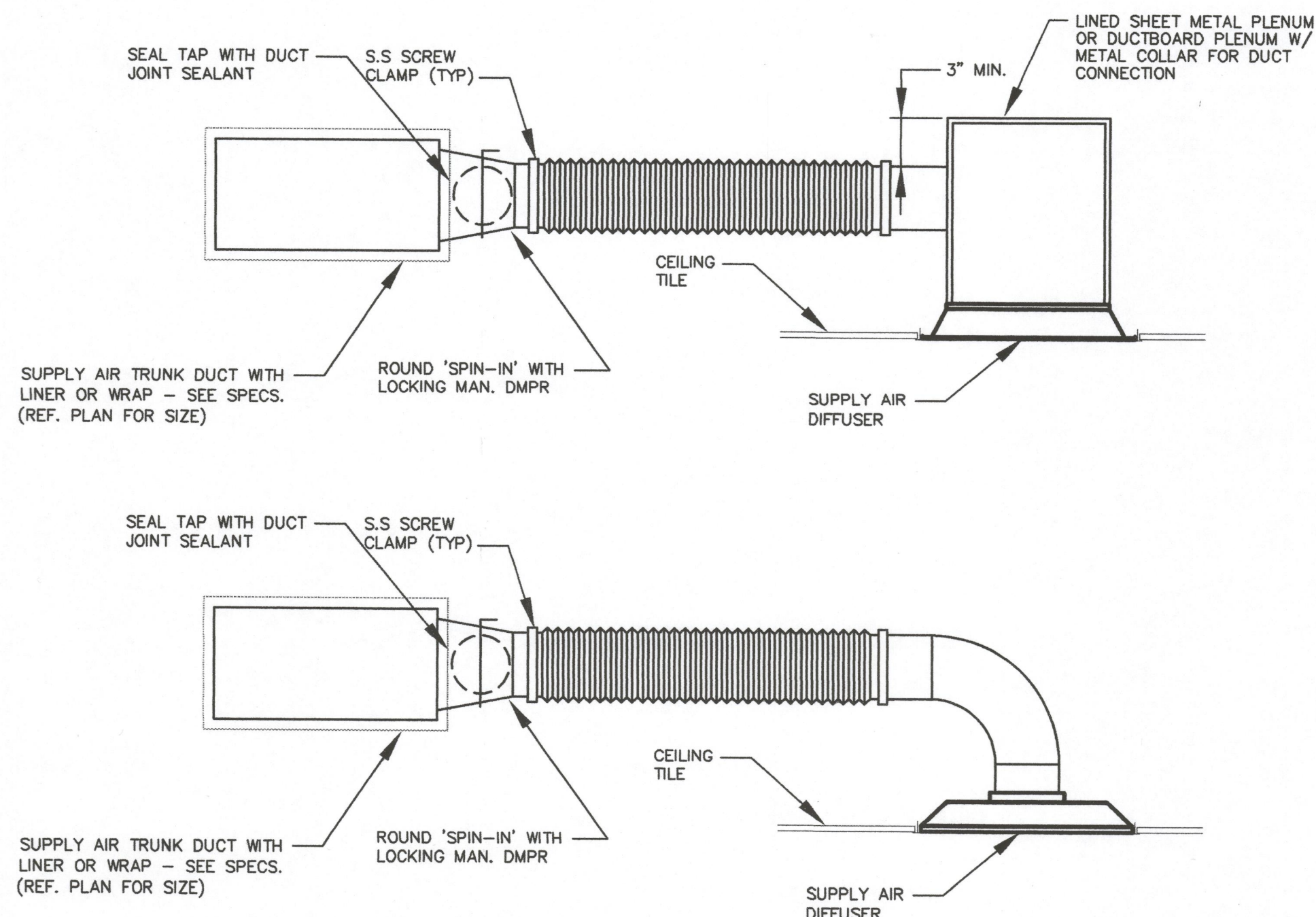
01 UP-BLAST EXH FAN DETAIL

Scale: NO SCALE



02 ROOF MTD EXH FAN DETAIL

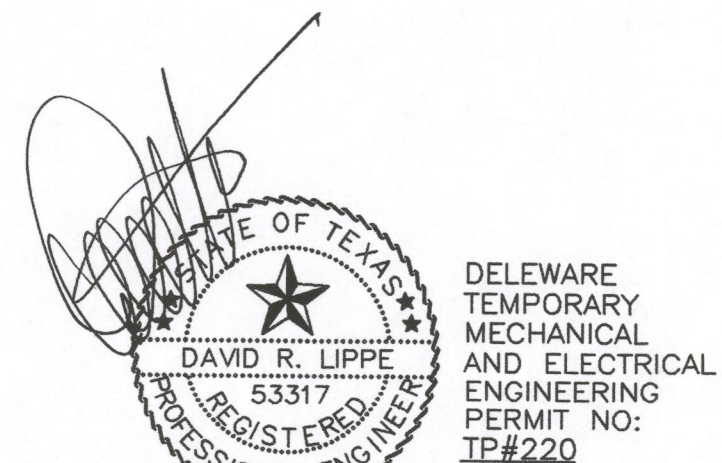
Scale: NO SCALE



03 DIFFUSER CONNECTION DETAIL

Scale: NO SCALE

MECHANICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
→	DIRECTION OF FLOW	—	LINED DUCTWORK
⊖	THERMOSTAT	—	RECTANGULAR ELBOW WITH TURNING VANES
⊗	GATE VALVE	—	ROUND FLEXIBLE DUCT CONNECTION
⊘	CHECK VALVE	—	90 DEGREE ELBOW DOWN
⊙	STRAINER	—	90 DEGREE ELBOW UP
—	UNION	—	FLEXIBLE DUCT CONNECTION
⊙	PRESSURE GAUGE	—	SUPPLY AIR DEVICE
—	THERMOMETER	—	DUCT SIZE TRANSITION
E.A.	EXHAUST AIR	CHWS	CHILLED WATER SUPPLY
⊖	F.D. FIRE DAMPER	CHWR	CHILLED WATER RETURN
H.O.A.	HAND - OFF - AUTOMATIC	CWS	CONDENSER WATER SUPPLY
N.C.	NORMALLY CLOSED	CWR	CONDENSER WATER RETURN
N.O.	NORMALLY OPEN	HWS	HOT WATER SUPPLY
M.A.	MIXED AIR	HWR	HOT WATER RETURN
O.A.	OUTSIDE AIR	RS	REFRIGERANT SUCTION
REL. A.	RELIEF AIR	RL	REFRIGERANT LIQUID
R.A.	RETURN AIR	FOT	FLAT ON TOP
⊙	DUCT MOUNTED SMOKE DETECTOR	—D—	CONDENSATE DRAIN (PITCHED)
—	MANUAL BALANCING DAMPER	—	BACKDRAFT DAMPER
—	MOTORIZED DAMPER	—	POINT OF CONNECTION
—	CEILING RETURN AIR DEVICE	—	NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
—	SUPPLY DUCT RISER	—	



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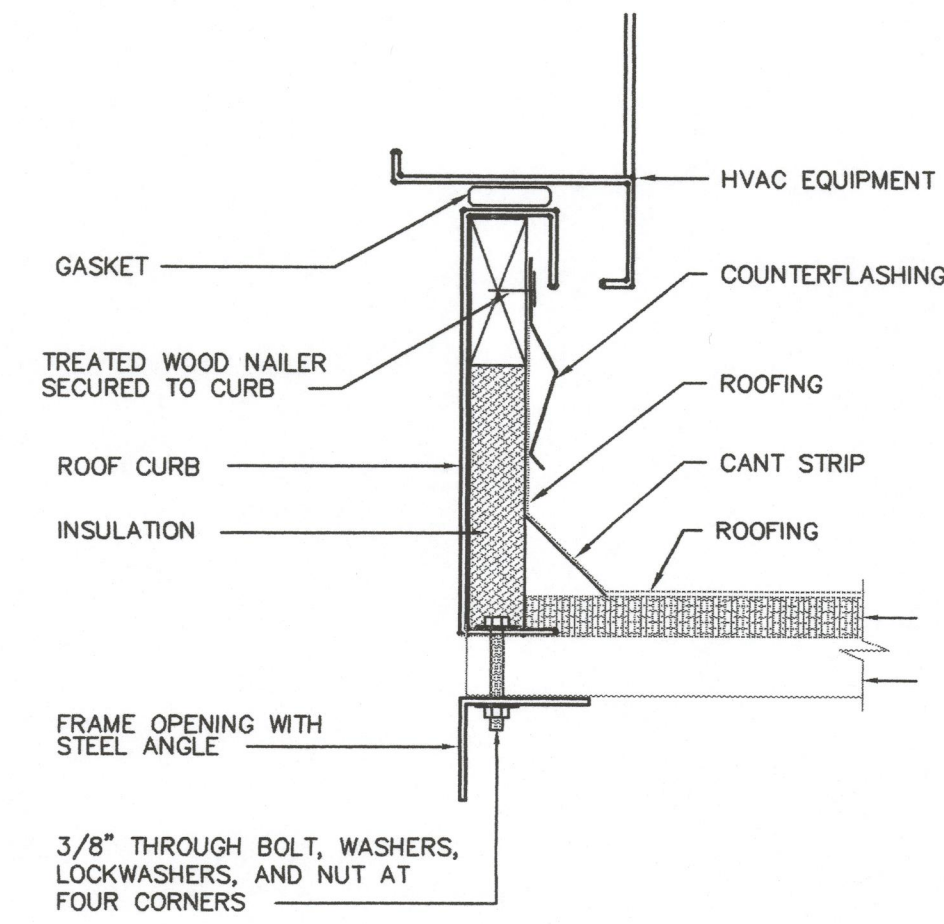
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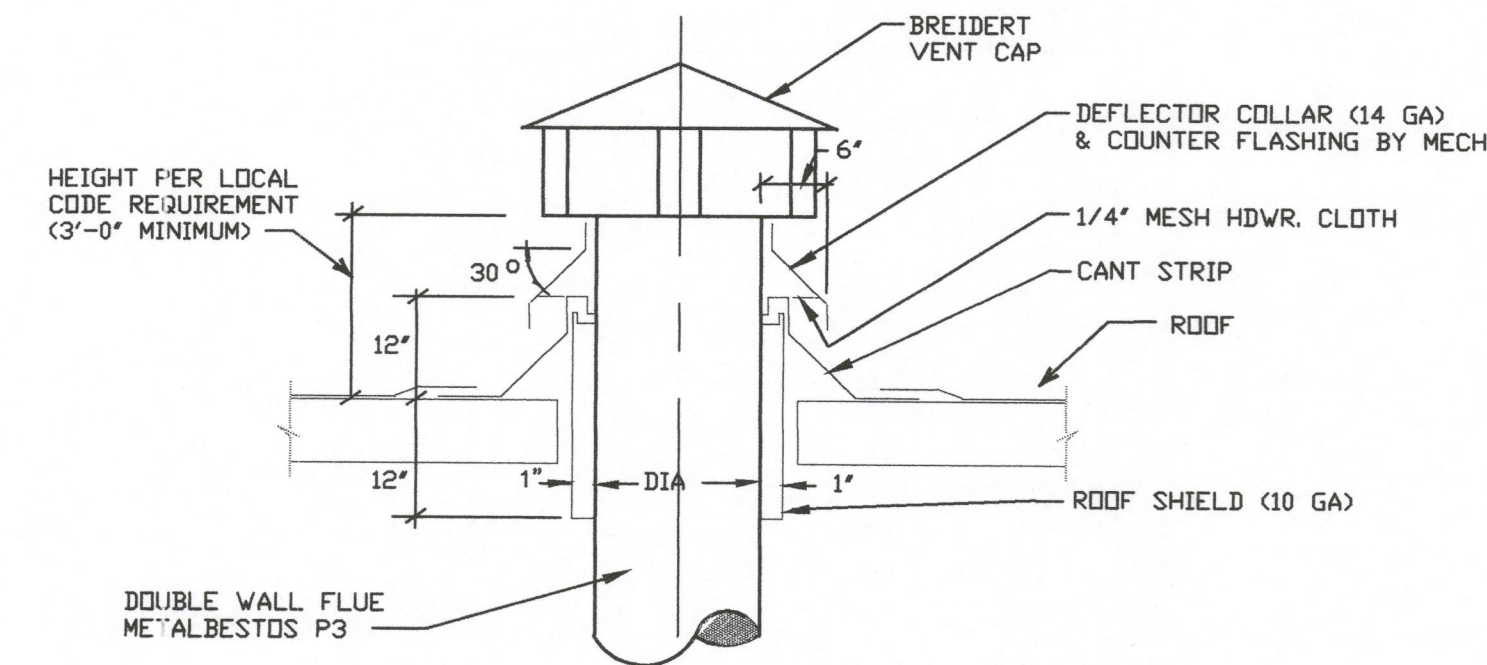
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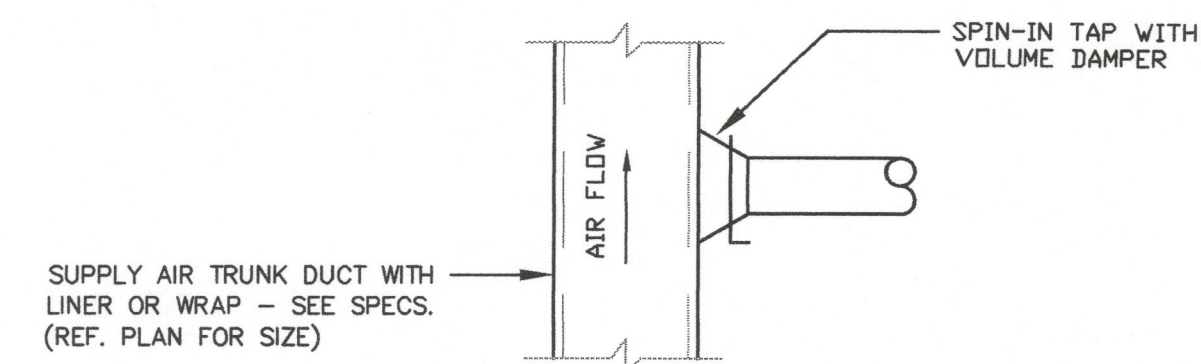
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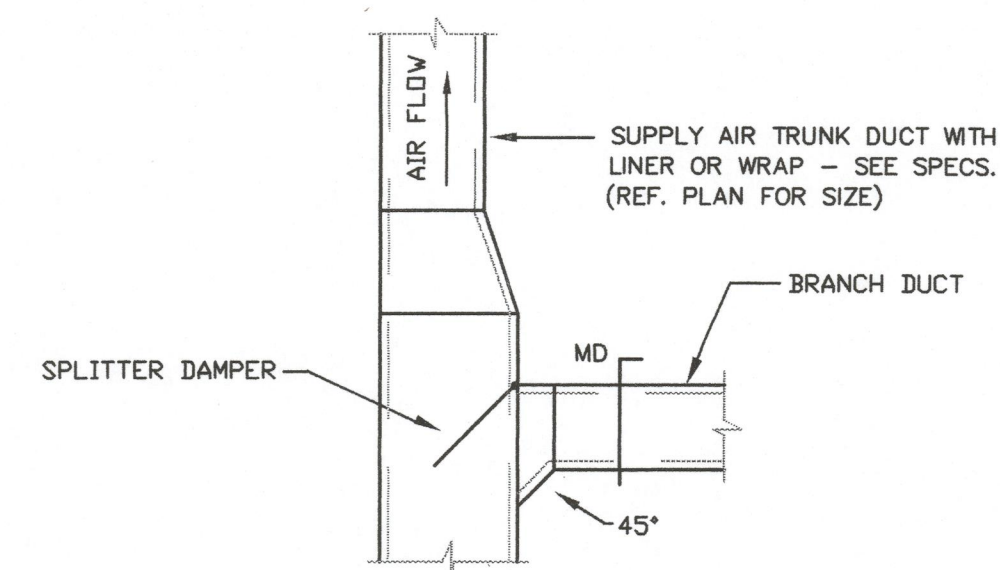
01 RTU CURB DETAIL
Scale: NO SCALE



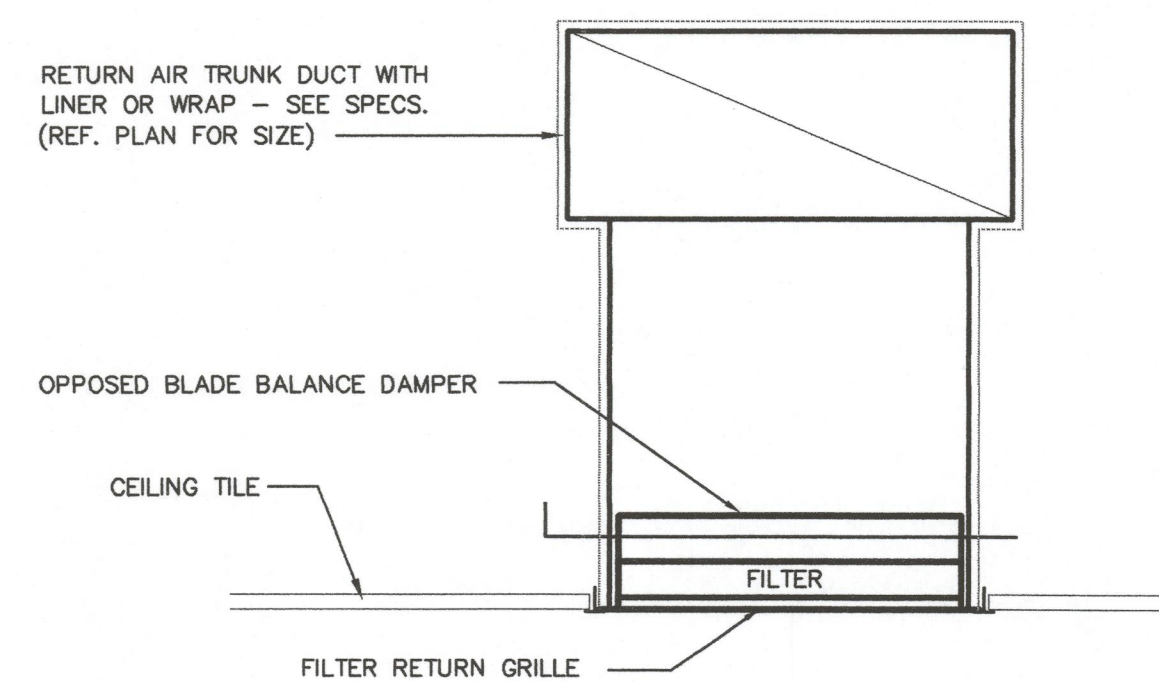
05 FLUE DETAIL
Scale: NO SCALE



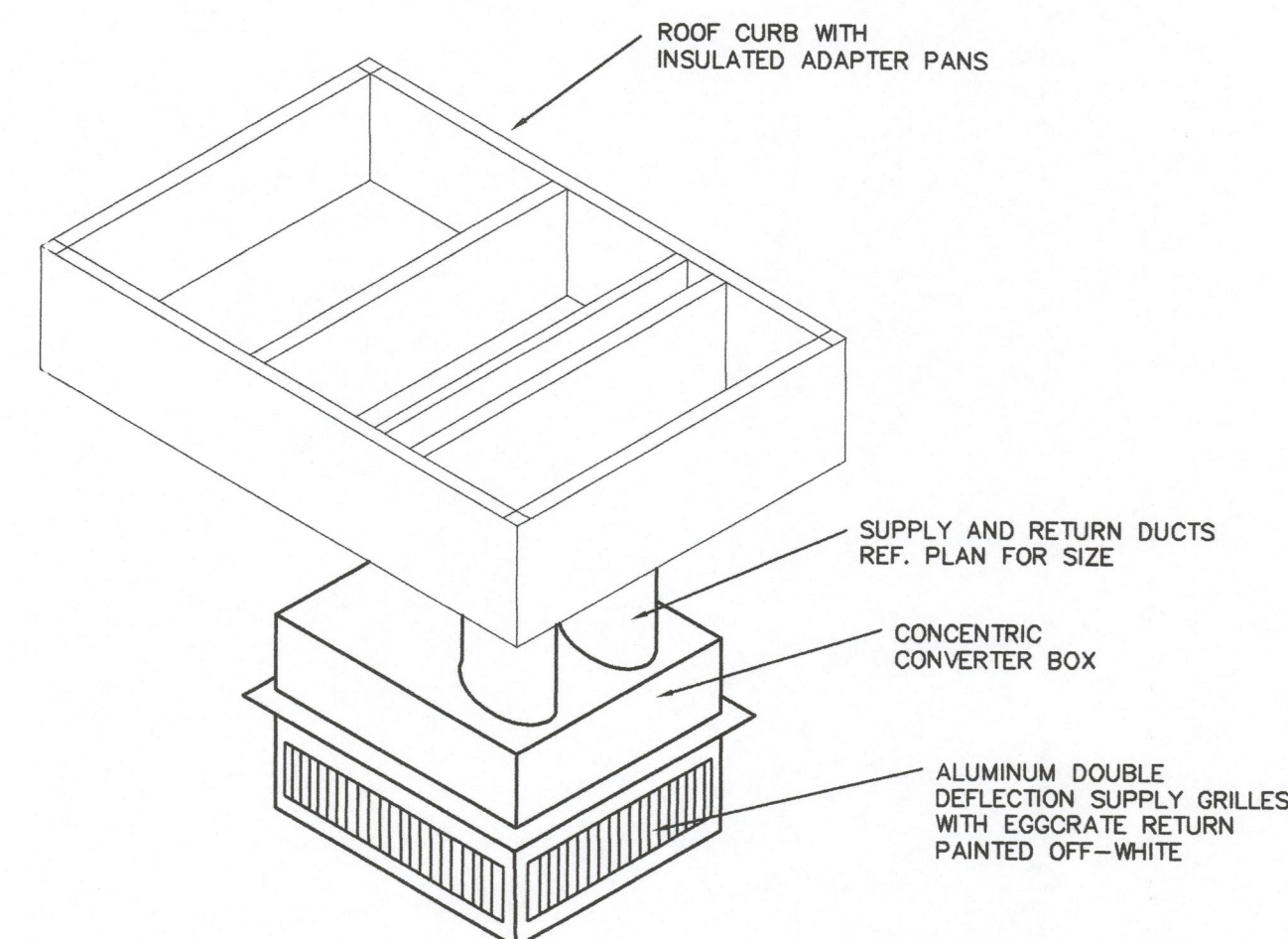
02 SPIN-IN TAP DETAIL
Scale: NO SCALE



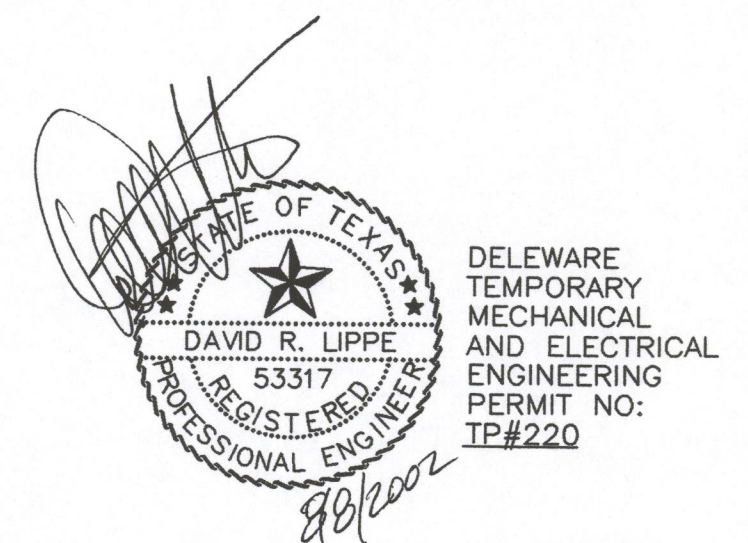
03 TYP. BRANCH DUCT TAP
Scale: NO SCALE



04 TYP RETURN AIR CONNECTION
Scale: NO SCALE



06 CONCENTRIC DIFF. DETAIL
Scale: NO SCALE



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LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	DIFFUSER	LAMP	REMARKS
A1	RECESSED FLUORESCENT 2X4 TROFFER, STATIC, BAKED WHITE FINISH, ENERGY SAVING LAMPS & BALLAST. COLUMBIA #J24-332G-FSA12-3EB8-120-F0735	ACRYLIC PRISMATIC	T8 3500K 32 WATT	
A4	SAME AS TYPE A1 EXCEPT DIFFERENT SHIELDING	SILVER POLYSTYRENE	T8 3500K 32 WATT	
B1	COLUMBIA #J24-332G-FSPC2-3EB8-120-F0735 SAME AS TYPE A1 EXCEPT WITH 1-LAMP ON EMERGENCY BATTERY PACK (MIN. 90-MINUTE@1200LUMENS)	ACRYLIC PRISMATIC	T8 3500K 32 WATT	
G3	DECORATIVE LOW VOLTAGE CORD PENDANT W/FRENCH GLASS SHADE 1 LIGHT-35W 12V HGN ACCESS LIGHTING #930V FINISH: T.B.S.		35W-12V JC/MR16	ELECTRONIC TRANSF. IN CANOPY/6" ADJ. CBL.
K1	AGCENT LIGHT MONOPONT BLACK MATTE FINISH LIGHTTOUER #9233BK W/ 6190BK		75W PAR 30	
TRACK	1-CIRCUIT TRACK WITH TYPE K1 HEADS AND BLACK MATTE FINISH LENGTH PER PLAN LIGHTTOUER #6000/6001/6002BK			
X	THERMOPLASTIC LED EXIT SIGN		LED	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES.
Y	PRESQCOLITE #XT 3 R EN W EMERGENCY LIGHTING UNIT WITH TWIN HEAD, WALL MOUNT		7.2W T5 INC.	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES.
	PRESQCOLITE #EDS2 W			
NOTE: GENERAL CONTRACTOR TO PROVIDE ALL LAMPS IN ALL FIXTURES VOLTAGE FOR ALL FIXTURES IS 120V				
J:\020701\JFS		THU AUG 8, 2002 @ 11:8 AM - JG		

LEGEND

2X4 LAY-IN FLUORESCENT FIXTURE

REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE DESCRIPTION

F4

STRAIGHT-SIDED UTILITY CHANNEL

4'-0" UTILITY FLUORESCENT STRIP LIGHT

G3

PENDANT FIXTURE

K1

SPOT LIGHT W/ MONOPPOINT MOUNT

K1

LIGHT TRACK (LENGTH AND HEADS AS SHOWN ON DRAWING)

X1

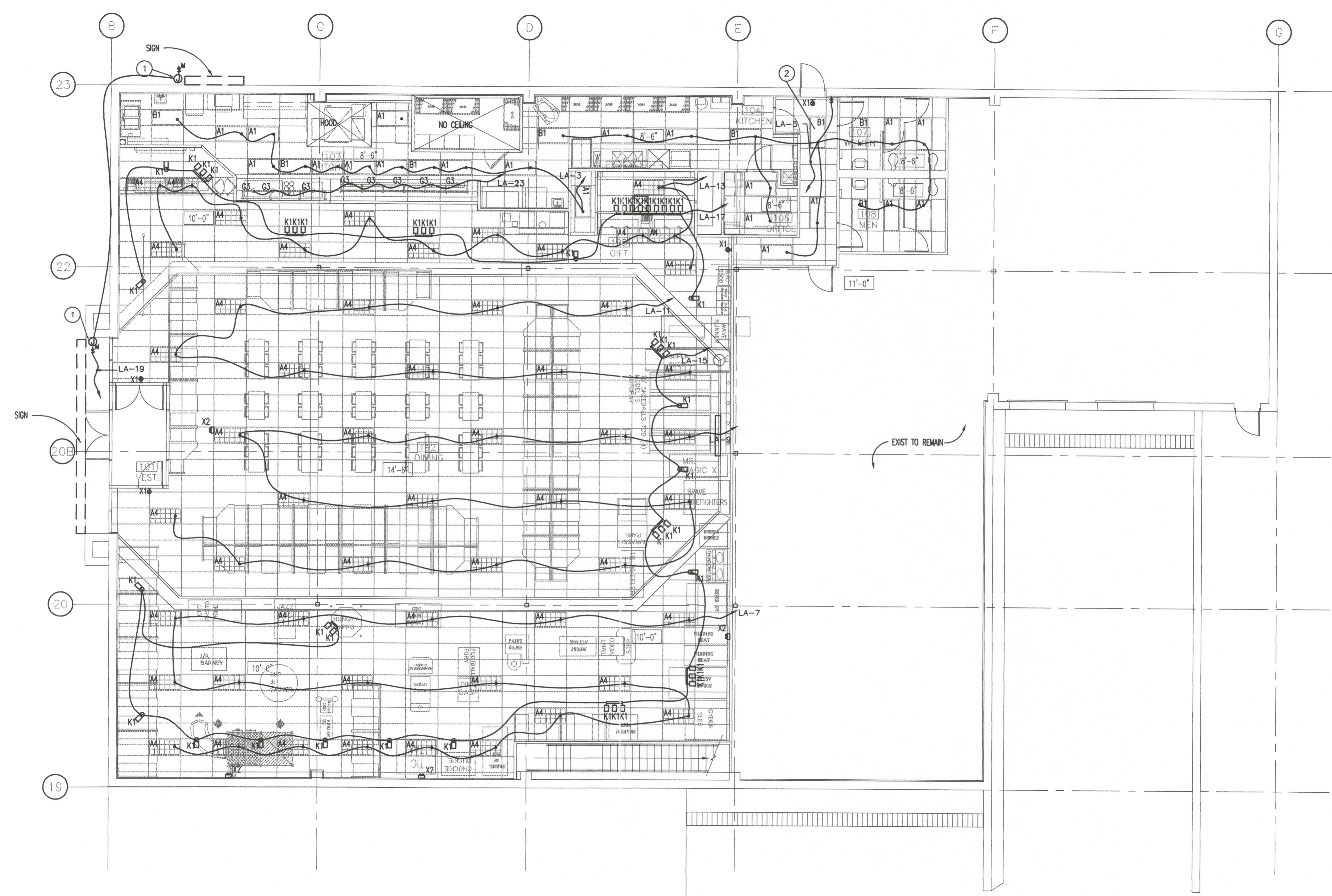
EXIT LIGHT

X2

EMERGENCY LIGHT

- LIGHTING NOTES:**
- A. LIGHT FIXTURES ABOVE FOOD PREP, STORAGE, AND SALES AREAS SHALL BE SHIELDED OR HAVE SHATTERPROOF OR SHIELDED LAMPS.
- B. ALL 2x4 FLUORESCENT FIXTURES SHALL HAVE T-8 ENERGY SAVING LAMPS AND ELECTRONIC BALLAST.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
- D. ALL EXIT/EMERGENCY SHALL BE ON SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES. IN DINING AREA, ALL EXIT/EMERGENCY SHALL BE ON CIRCUIT LA-1 PROVIDED WITH A LOCK-ON FEATURE.
- E. OUTLETS, SWITCHES AND COVER PLATES SHALL BE STAINLESS AT FOOD PREP., GRAY AT MARLITE (LEVITON 5362-SG/80703-GY) AND IVORY AT ALL OTHER AREAS. AT CEILING PAINT TO MATCH CEILING COLOR.

- NOTES BY SYMBOL 'O':**
- 1 WP J-BOX IN WALL FOR CONNECTION TO ILLUMINATED SIGNAGE. VERIFY EXACT LOCATION WITH SINGNAGE INSTALLER.
- 2 EMERGENCY LAMP IN THIS FIXTURE ONLY SHALL HAVE ONE LAMP UNSWITCHED LOCALLY FOR NIGHT LIGHT.



PLAN NORTH FOR ROOM FINISH SCHEDULE ONLY REFER TO SITE PLAN FOR TRUE NORTH

N

N

PLAN NORTH

TRUE NORTH

01

ELECTRICAL - LIGHTING PLAN

SCALE: 1/8"=1'-0"

STATE OF TEXAS

DAVID R. LIPPE

53317

REGISTERED PROFESSIONAL ENGINEER

9/8/2002

LIPPE AND ASSOCIATES

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15950 MIDWAY ROAD

ADDISON, TEXAS 75001

(972) 387-3500

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#020701

DELEWARE TEMPORARY MECHANICAL AND ELECTRICAL ENGINEERING PERMIT NO: TP#220

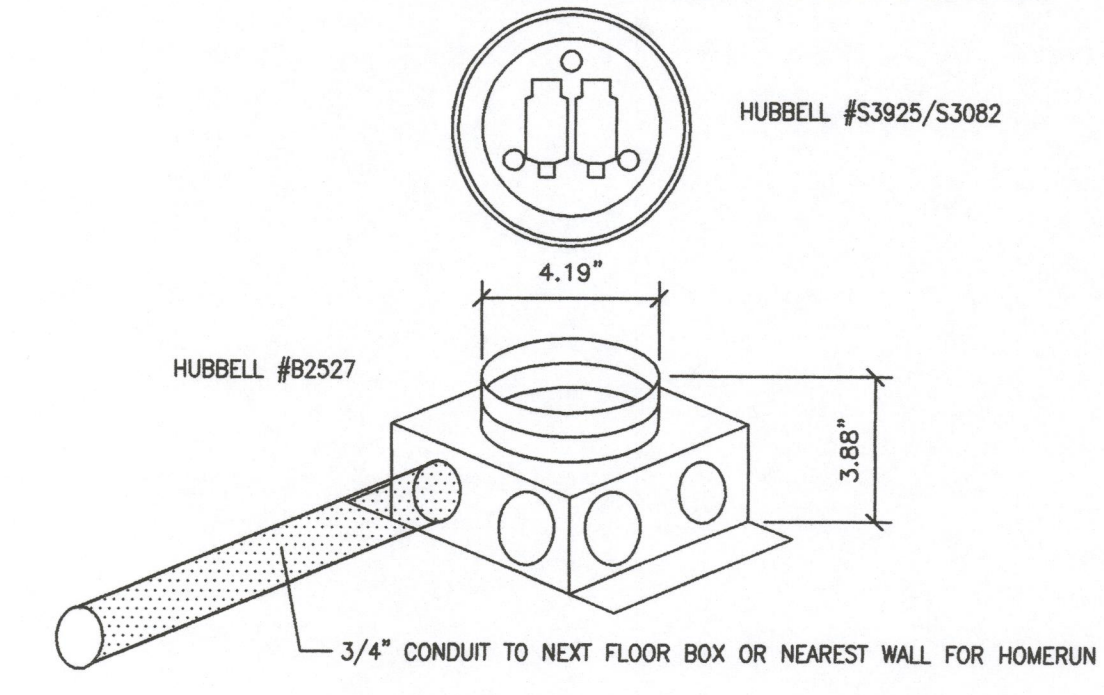
ELECTRICAL SYMBOLS & ABBREVIATIONS			
⊕	SINGLE CONVENIENCE OUTLET (SCO)	Sp	SWITCH AND PILOT LIGHT
⊕	DOUBLE CONVENIENCE OUTLET (DCO)	EL	ELEVATION AFF
⊕	JUNCTION BOX (JB)	A	AMPERES
⊕	QUADRUPLX	V	VOLTS
⊕	MOTOR OUTLET	W	WATTS
⊕	SOLENOID OR CONTROL CIRCUIT	PH	PHASE
⊕	SINGLE POWER OUTLET AS NOTED	AFF	ABOVE FINISHED FLOOR
⊕	CONVENIENCE OUTLET, 2 CIRCUIT 120/208V-1PH, 3 WIRE (OR AS NOTED)	BTC	BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT
⊕	LIGHT INDICATION	BTF	BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE
⊕	CONDUIT AS NOTED	DFA	DOWN FROM ABOVE
⊕	TELEPHONE OUTLET	SU	STUB UP AFF
⊕	PANELBOARD	HP	HORSEPOWER
⊕	DISCONNECT SWITCH	BFC	BELOW FINISHED CEILING
⊕	Sm		MOTOR SWITCH

NOTES BY SYMBOL 'O':

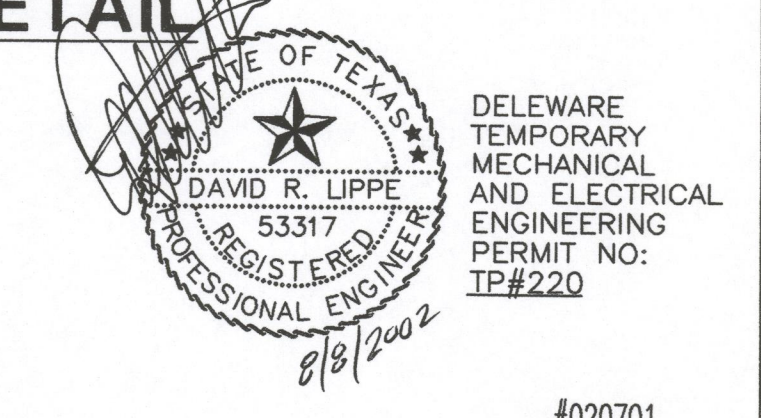
- FLOOR RECEPTACLES SHALL BE FLUSH MOUNTED, HUBBELL #B-2527 WITH S-3925 BRASS COVER AND CARPET RING #S-3082. VERIFY WITH PROJECT MANAGER FOR GAME LAYOUT PRIOR OF CUTTING CONCRETE SLAB.
- SMOKE AND PRODUCTS OF COMBUSTION DETECTOR MOUNTED IN SUPPLY AIR DUCT OF ROOF-TOP UNIT TO DE-ENERGIZE UNIT IN CASE OF ACTIVATION.
- OWNER FURNISHED SECURITY KEYPAD ALARM SYSTEM. FIELD VERIFY EXACT LOCATION WITH INSTALLER AND OWNER.
- ALL OUTLETS ACESIBLE TO PUBLIC SHALL BE 'TAMPER RESISTANT'.
- OUTLETS SHALL BE CONCEALED FROM PUBLIC AND LOCATED BEHIND EQUIPMENT.
- NEW ELECTRICAL PANELS, SURFACE MOUNTED.

GENERAL NOTES:

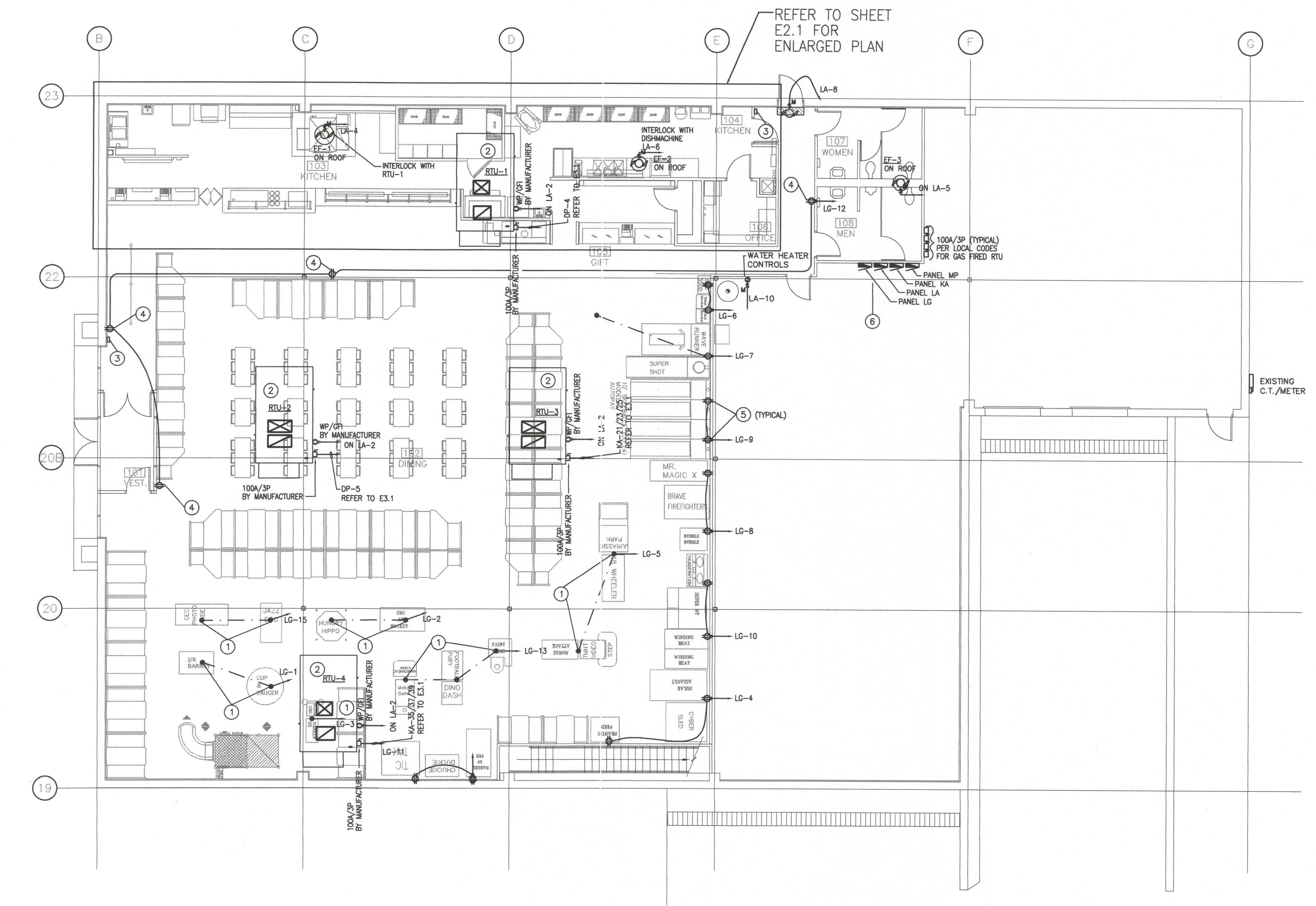
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
- WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
- VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
- DUPLEX RECEPTACLES MOUNTED WITHIN SIX FT. OF SINK OR LAVATORY SHALL BE GFI PER NEC AND LOCAL CODES. ALL RECEPTACLES SHALL BE TAMPER PROOF.
- PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED FOR PROVIDING TELEPHONE SERVICE.
- ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
- ALL CASH REGISTER WIRING TO BE PULLED BY ELECTRICAL CONTRACTOR AND FINAL CONNECTION BY CONTRACTOR PER OWNER'S REQUIREMENTS. ALL CASH REGISTER OUTLET SHALL BE ISOLATED GROUND TYPE AND PROVIDE ISOLATED GROUND WIRE AND NORMAL GROUND WIRE.
- ALL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
- REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER ADA REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
- REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- ALL GROUND WIRES SHALL BE CONNECTED TO THE BUILDING GROUNDING SYSTEM PER LANDLORD'S SPECS. AND LOCAL JURISDICTION.
- ALL COMMUNICATION OUTLETS SUCH AS DATA/MICROS/POS, PRINTER, CREDIT CARD (VALIDATOR) ASSOCIATED WITH CHUCK E CHEESE'S SHALL BE CONNECTED TO THE CHUCK E CHEESE'S COMPUTER DATA SYSTEM INSIDE THE OFFICE.
- CONDUIT FITTING CONNECTIONS SHALL BE IN ACCORDANCE WITH LANDLORD'S SPECS. AND LOCAL JURISDICTION.



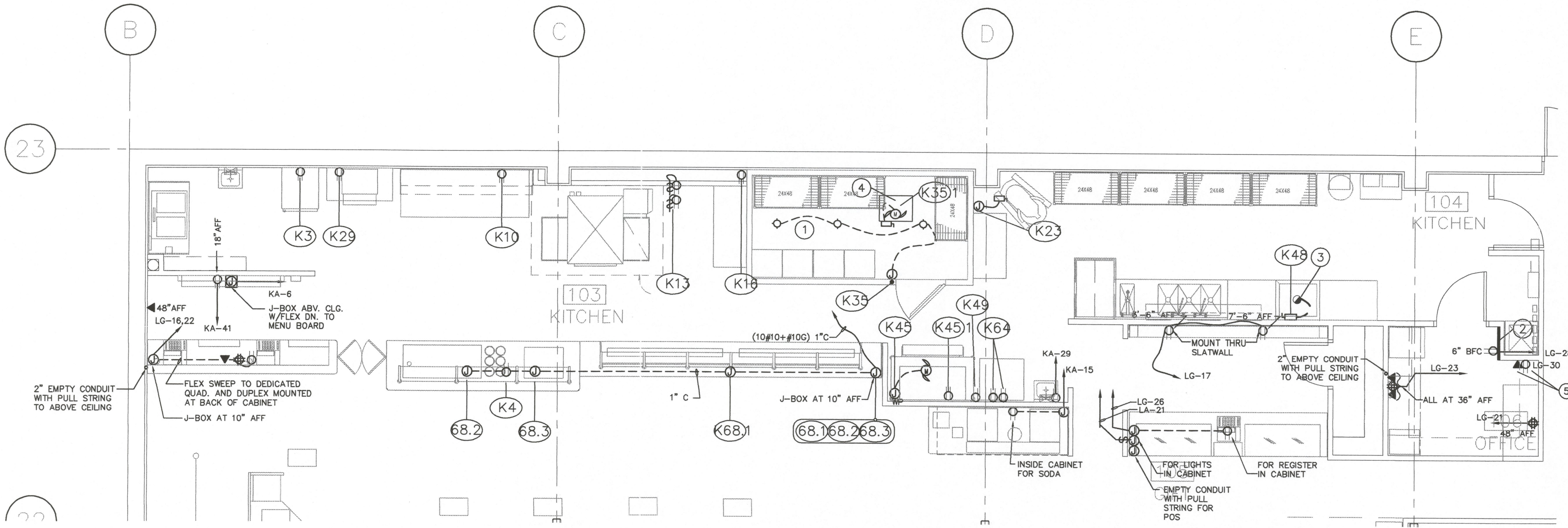
02 FLOOR OUTLET DETAIL
SCALE: NONE



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01 FLOOR PLAN - POWER
SCALE: 1/8" = 1' - 0"
PLAN NORTH FOR ROOM FINISH SCHEDULE ONLY REFER TO SITE PLAN FOR TRUE NORTH



PLAN NORTH FOR ROOM FINISH SCHEDULE ONLY REFER TO SITE PLAN FOR TRUE NORTH

PLAN NORTH TRUE NORTH

01 KITCHEN PLAN - POWER

SCALE: 1/4"=1'-0"

FOODSERVICE ELECTRICAL CIRCUITING SCHEDULE

ITEM	#	VOL	#	TYPE	HGT	DESCRIPTION	LOAD	NOTES	CIRCUIT #
K3	120	1	D.C.O.	18"		REFRIGERATOR, REACH-IN	8		KA-27
K4	120	1	D.C.O.	18"		MICROWAVE	8.3		KA-38
K10	120	1	D.C.O.	18"		REFRIGERATED COUNTER, PIZZA TOP	10	1/2	KA-2
K13	120	1	D.C.O.	18"		DOUBLE STACK PIZZA OVEN MODEL#1450	6	5	KA-17,19
K23	208	3	S.C.O.	42"		VARIMIXER MODEL W60P	12.7		KA-30/32/34
K29	120	1	S.C.O.	42"		DOUGHPRO MODEL DP1100	12.5		KA-13
K35	208	3	J.B.			KOLPAK MODEL # CUSTOM			KA-33/35/37
K35.1	120	1	J.B.			KOLPAK MODEL			KA-39
K45	208	1	J.B./D.C.O.	72"		ICECUBE REMOTE CONDENSER	18.4		KA-8/10
K45.1	208	1	D.C.O.	72"		MANTOWOC #400-1392N ICECUBE MACHINE	19.0		KA-12,14
K48	208	1	S.C.O.	60"		DISHWASHER JACKSON MODEL TEMPSTAR	68.7		KA-5/7
K49	120	1	D.C.O.	60"		FILTER ASSEMBLY			KA-5/7
K64	120	1	D.C.O.	18"		COTTON CANDY MACHINE	10	1/3	KA-4
K68.1	120	1	S.C.O.	20"		(4) HEATED SHELF, BUILT-IN NEMA 5-15P	8.3		KA-16,18,40,42
K68.2	120	1	S.C.O.			DELFIELD #AB156B COLD FOOD UNIT	8	1/4	KA-1
K68.3	120	1	S.C.O.			(2) HOT FOOD WELL UNIT, DROP-IN	6.7		KA-31

NOTES BY SYMBOL 'O':

- E.C. TO FIELD PROVIDE CONDUCTORS, CONDUIT, BOXES AND FINAL CONNECTIONS FOR COOLER, TEMPERATURE CONTROLS, LIQUID LINE SOLENOID VALVES, DEFROST TIME CLOCK LIGHT FIXTURES AND SWITCHES FURNISHED BY COOLER SUPPLIER.
- GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL 2"x4"x3/4" PLYWOOD FOR TELEPHONE BOARD. INSTALLATION SHALL BE PER TELEPHONE COMPANY SPECIFICATIONS AND REQUIREMENTS. INSTALL AS CLOSE TO CEILING AS POSSIBLE. COORDINATE TELEPHONE POINT OF CONNECTION TO THIS TELEPHONE BOARD. PROVIDE CONNECTION BLOCK AS REQUIRED PER TELEPHONE CO. FOR FOUR TEL. LINES.
- PROVIDE FUSED DISCONNECT SWITCH TO EQUIPMENT PER MANUFACTURER SPECIFICATIONS AND LOCAL CODES. (100A/2P)
- 30 AMP, 208V 3 PHASE FUSED DISCONNECT MOUNTED IN NEMA 1 ENCLOSURE ON WALK-IN COOLER FOR CONDENSER UNIT.
- AT 8'-0" AFF FOR SECURITY SYSTEM. COORDINATE WITH OWNER AND INSTALLER.



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DELEWARE
TEMPORARY
MECHANICAL
AND ELECTRICAL
ENGINEERING
PERMIT NO:
TP#220

#020701

MAIN PANELBOARD 'MP'											
MAIN SIZE: 600 A M.L.O.						LOCATION: ELECTRICAL WALL					
SERVICE VOLTAGE: 120/208						FED FROM: MAIN SWITCH					
PHASE / WIRE: 3/4											
MOUNTING: SURFACE											
TYPE: CUTLER-HAMMER											
POW-R-LINE 3d											
CCT. NO.	SERVES	No. OF POLES	KVA	No. OF SETS	WIRE PER SET	WIRE SIZE	GRD SIZE	CONDUIT SIZE (IN.)	M.O.C.P. AMPS	FLA	
1	PANEL KA	3	78.0	1	4	4/0	4	2	225	216	
2	PANEL LA	3	26.0	1	4	2	8	1 1/4	100	72	
3	PANEL LG	3	20.5	1	4	2	8	1 1/4	100	57	
4	RTU-1	3	21.6	1	3	4	8	1	70	60	
5	RTU-2	3	26.0	1	3	3	8	1 1/4	80	72	
6											
CATEGORY											
			CONNECTED	DEMAND		DESIGN	REMARKS:				
			KVA	AMPS	FACTOR	KVA					
CONTINUOUS: (NEC 215-2)			19.11	53	125%	23.88	ALL HEATING, AIR CONDITIONING AND REFRIGERATION UNITS SHALL HAVE 'HACR' BREAKER				
RECEPTACLE: (TABLE 220-13)			25.59	71	10+5x16	17.80					
MOTORS: (NEC 430-B)			3.73	10	100%	3.73					
KITCHEN: (TABLE 220-20)			41.23	114	65%	26.80					
AIR CONDITION: (NEC 220-30(c))			90.80	252	100%	90.80					
HEAT (ELECTRIC): (NEC 220-31)			0.00	0	0%	0.00					
OTHER LOAD: (NEC 215-2)			4.66	13	100%	4.66					
LARGEST MOTOR: (NEC 430-B)			6.91	19	25%	1.73					
TOTAL:			185.12	514	92%	169.40					
						470					

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Mon Aug 5, 2002 15:24

PANELBOARD SCHEDULE KA											
DESIGNATION	POLES /AMPS	LOAD, VA CONT.	LOAD, VA RECEPT.	OTHER	#	Ø	#	LOAD, VA CONT.	LOAD, VA RECEPT.	OTHER	DESIGNATION
COLD FOOD UNIT #68.2	1/20				1	A	2	1200	1/20		REF. CNTR. PIZZA #10
COTTON CANDY #64	1/20				3	B	4	1200	1/20		COTTON CANDY #64
DISHWASHER #48	2/90				7	A	8	540	1/20		MENU BOARD
					9	B	10	1914	2/30		ICE CONDENSER #45
					11	C	12	1914			
PIZZA PRESS #29	1/20	1500			13	A	14	1976	2/30		ICE DISPENSER #45.1
DRINK TOWER	1/20	1000			15	B	16	1976			
PIZZA OVEN #13	1/20				600	17	C	18	1000	1/21	HEATED SHELF #68.1
PIZZA OVEN #13	1/20				600	17	C	18	1000	1/20	HEATED SHELF #68.1
RTU-3	3/70				7200	21	B	22	1200	1/20	UNSPECIFIED #49
(3#4, #8G) 1" C					7200	23	C	24	1/20	SPARE	
R.I. FRIG. #03	1/20				7200	25	A	26	1/20	SPARE	
KITCHEN DCO	1/20				1920	27	B	28	1/20	SPARE	
HOT FOOD WELL #68.3	2/120	180			1600	31	A	32	1525	3/20	FOOD MIXER #23
					33	B	34	1525			
RTU-4	3/70				7200	35	C	36	1525		
(3#4, #8G) 1" C					7200	37	A	38	1000	1/20	MICROWAVE #4
					7200	39	B	40	1000	1/20	HEATED SHELF #68.1
D.C.O.	1/20	360			41	C	42	1000	1/20	HEATED SHELF #68.1	
CATEGORY											
			CONN. LOAD	CODE	CODE LOAD	MOUNTED: SURFACE		REMARKS:			
			KVA	AMPS	FACTOR	KVA	AMPS				
CONTINUOUS:			0.00	0	125%	0.00	0	ALL HEATING, AIR CONDITIONING AND REFRIGERATION UNITS SHALL HAVE 'HACR' BREAKER			
RECEPTACLE:			4.24	12	100%	4.24	12				
MOTORS:			0.00	0	100%	0.00	0				
KITCHEN EQUIPMENT:			39.03	108	65%	25.37	70				
AIR CONDITION:			43.20	120	100%	43.20	120				
HEAT (ELECTRIC):			0.00	0	0%	0.00	0				
OTHER LOAD:			2.14	6	100%	2.14	6				
LARGEST MOTOR:			6.91	19	25%	1.73	5				
TOTAL:			88.61	246	87%	76.67	213				

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THU AUG 8, 2002 @ 10:5 AM - JG

PANELBOARD SCHEDULE LA											
DESIGNATION	POLES /AMPS	LOAD, VA CONT.	LOAD, VA RECEPT.	OTHER	#	Ø	#	LOAD, VA CONT.	LOAD, VA RECEPT.	OTHER	DESIGNATION
* EXIT/EMERGENCY	1/20	200			1	A	2	900	1/20		RECEPT. ON ROOF-RTU'S
KITCHEN LIGHTS	1/20	1365			3	B	4	1840	1/20		EF-1 1HP
RESTROOMS LIGHTS & EF	1/20	1575			100	5	C	6	667	1/20	EF-2 1 1/4 HP
+DINING 2x4 LIGHTS	1/20	1890			7	A	8	1127	1/20		FF-1
+DINING 2x4 LIGHTS	1/20	1470			9	B	10	200	1/20		GAS WTR. HTR. #
+DINING 2x4 LIGHTS	1/20	1050			11	C	12				
+DINING TRACKS/MONO	1/20	1260			13	A	14				
+DINING TRACKS/MONO	1/20	1800			15	B	16				
+GIFT COUNTER TRACKS	1/20	1575			17	C	18				
+SIGNAGE	1/20	1200			19	A	20				
+GIFT COUNTER LIGHT	1/20	600			21	B	22				
+ALL G3 LIGHTS	1/20	400			23	C	24				
SPARE	1/20	840			25	A	26				
SPARE	1/20	840			27	B	28				
SPARE	1/20	840			29	C	30				
CATEGORY											
			CONN. LOAD	CODE	CODE LOAD	MOUNTED: SURFACE		REMARKS:			
			KVA	AMPS	FACTOR	KVA	AMPS				
CONTINUOUS:			16.91	47	125%	21.13	59	30-POLE PANEL +SWD BREAKER SHALL BE USED AND APPROVED FOR SWITCHING			
RECEPTACLE:			0.90	2	100%	0.90	2				
MOTORS:			3.73	10	100%	3.73	10				
KITCHEN EQUIPMENT:			0.00	0	100%	0.00	0				
AIR CONDITION:			0.00	0	100%	0.00	0				
HEAT (ELECTRIC):			0.00	0	100%	0.00	0				
OTHER LOAD:			0.00	0	100%	0.00	0				
LARGEST MOTOR:			0.10	0	25%	0.03	0				
TOTAL:			21.74	60	120%	25.99	72				

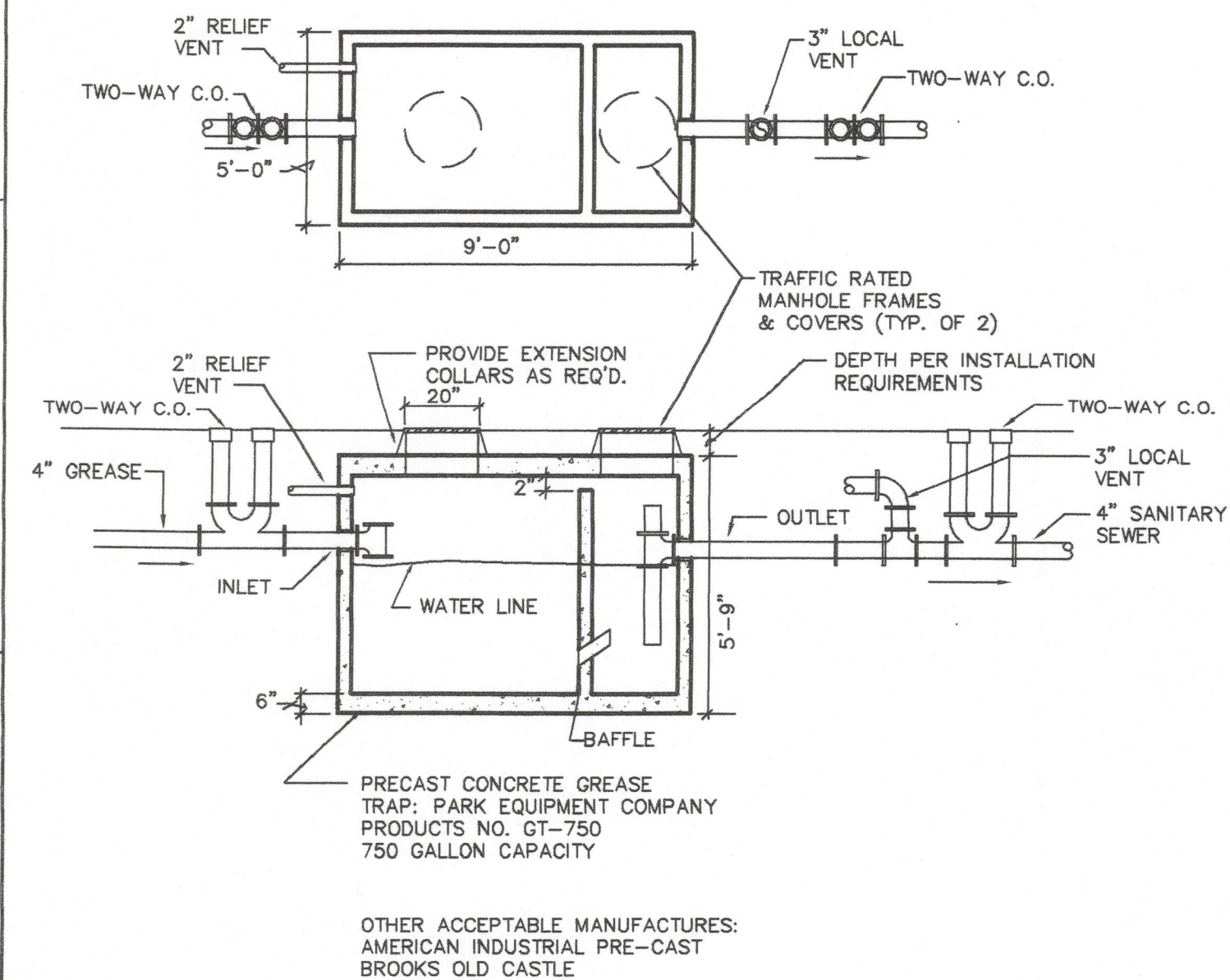
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MON AUG 5, 2002 @ 3:23 PM - JG

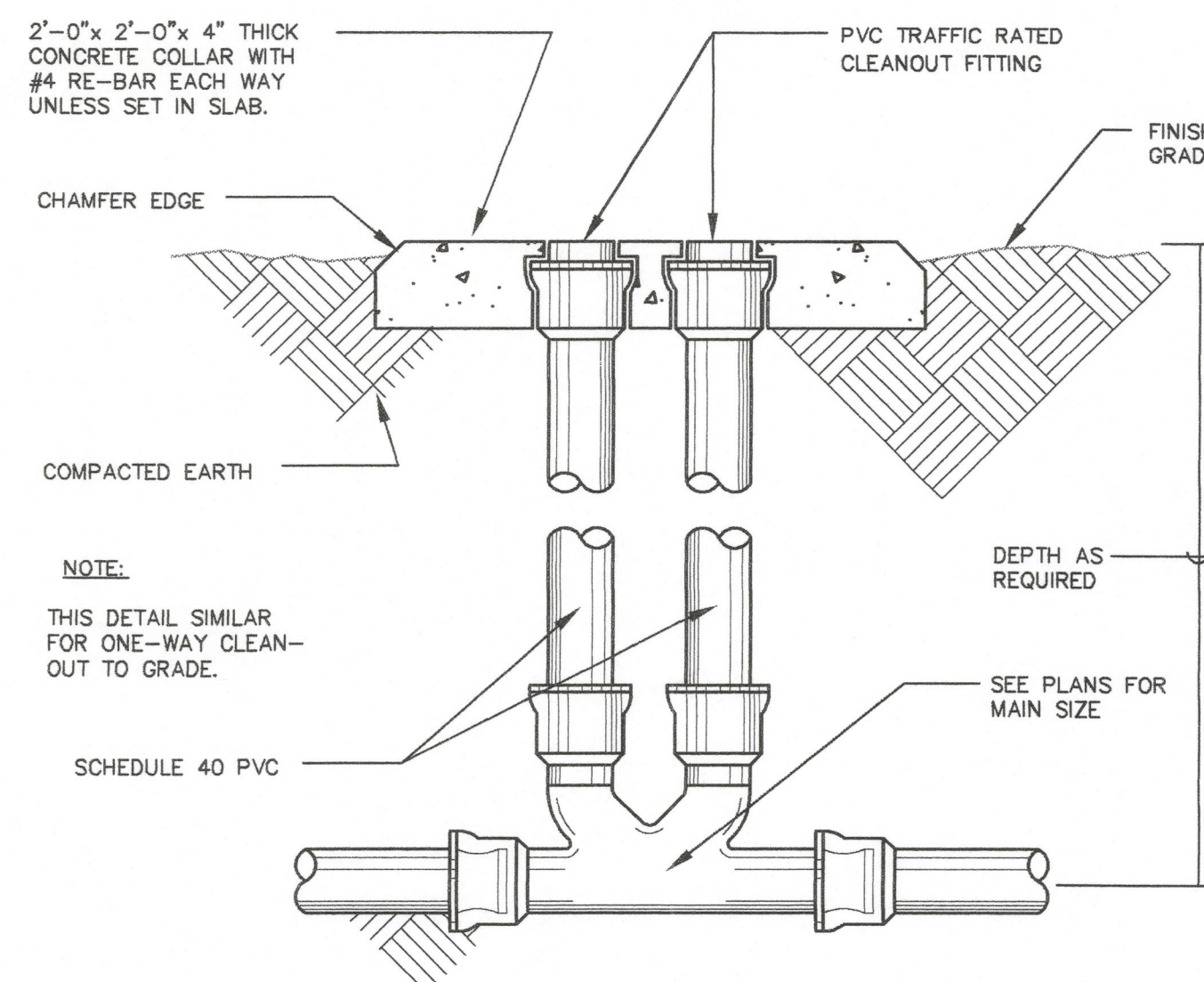
PANELBOARD SCHEDULE LG													
DESIGNATION	POLES /AMPS	LOAD, VA CONT.	LOAD, VA RECEPT.	OTHER	#	Ø	#	LOAD, VA CONT.	LOAD, VA RECEPT.	OTHER	POLES /AMPS	DESIGNATION	
CUP & SAUCER/BARNEY	1/20		720		1	A	2		720		1/20	HUNGRY/HOCKEY	
TODDLER WHAC	1/20	200	720		3	B	4	200	720		1/20	SOLAR/FRONTG FRED	
J.PARK/TINT/MOUSE	1/20	200	1000		5	C	6	200	720		1/20	BC3500/TIKET MNOHR	
SUPER SHOT/SHOOTOUT	1/20	200	720		7	A	8	200	1000		1/20	MAGIC/R. BUBBLE	
SKETBALL GAMES	1/20	200	720		9	B	10	200	1000		1/20	THUNDER/TIN/W.HEAT	
TIC TAK/CHUCKY DUCKY	1/20	200	1000		11	C	12		900		1/20	CONVENIENCE RECEPT.	
DINO/PAIN/HAMMERHEAD	1/20	200	1000		13	A	14		840		1/20	SPARE	
CEC PHOTO/JAZZ DOGS	1/20	200	720		15	B	16		900		1/20	CASH REGISTER	
SPARE	1/20		720		17	C	18		900		1/20	CUSTOMER/GIFT REPT.	
ATM	1/20		720		19	A	20		840		1/20	SPARE	
OFFICE RCPT.	1/20		600		21	B	22		900		1/20	CASH REGISTER	
OFFICE RCPT.	1/20		600		23	C	24		360		1/20	PRINTER-DED. RECEPT.	
SPARE	1/20			840	25	A	26		900		1/20	GIFT REGISTER	
SPARE	1/20			840	27	B	28		360		1/20	*TELEBOARD	
SPARE	1/20			840	29	C	30		180		1/20	*SECURITY SYSTEM	
CATEGORY													
CONTINUOUS:	KVA	LOAD AMPS	CODE FACTOR	CODE LOAD AMPS	MOUNTED: SURFACE 120/208 PHASE/WIRE: 3/4 MAIN SIZE: 100 AMPS MAIN TYPE: M.L.O. BUS TYPE: COPPER SERIES RATE: 65/10KA % UNBALANCE PHASE 'A': 8900 6% PHASE 'B': 8400 1% PHASE 'C': 7820 -7%							REMARKS: 30-POLE PANEL * LOCK-ON DEVICE	
RECEPTACLE:	20.46	57	10+5x10	15.23									
MOTORS:	0.00	0	100%	0.00	0								
KITCHEN EQUIPMENT:	0.00	0	100%	0.00	0								
AIR CONDITION:	0.00	0	100%	0.00	0								
HEAT (ELECTRIC):	0.00	0	100%	0.00	0								
OTHER LOAD:	2.52	7	100%	2.52	7								
TOTAL:	25.18	70	81%	20.50	57								
JL 020701/PNL-LG													
FRI AUG 2, 2002 @ 5:37 PM -													

NOTES BY SYMBOL 'O'

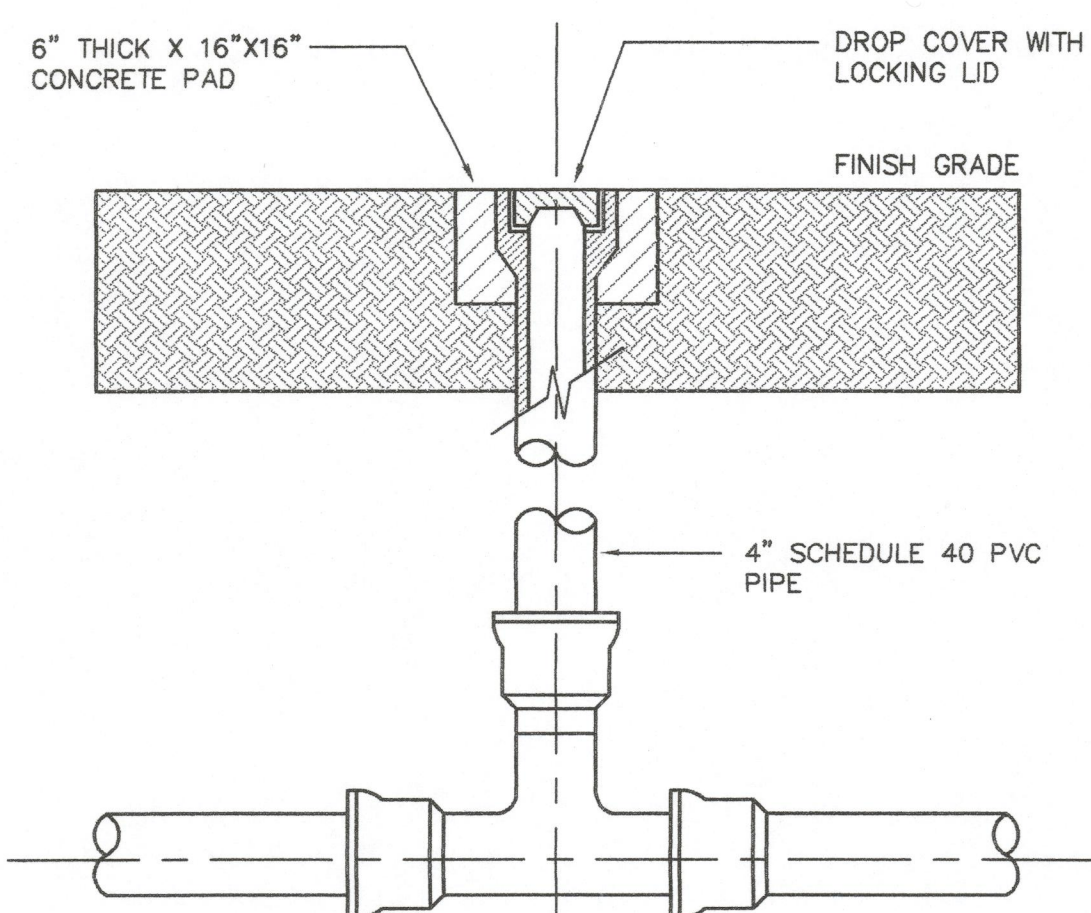
- PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR AND GAS UTILITY COMPANY TO HAVE NEW GAS METER INSTALLED AT BUILDING. SERVICE DELIVERY PRESSURE TO BE SET AT 2 PSI.
- 2 PSI MED. PRESSURE GAS SUPPLY PIPING UP ON EXTERIOR WALL TO ROOF. SLEEVE GAS PIPING THRU PARAPET WALL ONTO ROOF. PAINT PIPING ON EXTERIOR OF WALL TO MATCH BUILDING.
- PLUMBING CONTRACTOR TO INSTALL 2 PSI MED. PRESSURE GAS PIPING ON ROOF. PROVIDE PIPE STANDS, SEE DETAIL ON SHT. P.3.2.
- LOW PRESSURE GAS PIPING DOWN THRU ROOF TO PIZZA OVEN. PLUMBING CONTRACTOR TO PROVIDE PRESS. REDUCING REGULATOR. COORDINATE ROOF PENETRATION WITH ROOFING CONTRACTOR.
- GAS REGULATOR AT GAS METER, REGULATE PRESSURE DOWN TO 2 PSI MEDIUM PRESSURE. COORDINATE WITH GAS COMPANY.
- GAS PIPING CONNECTION AT RTU PROVIDE PRESSURE REDUCING REGULATOR (TYP OF 4). SEE DETAIL ON SHT. P.3.2.
- CONDENSATE DRAIN PIPING ON ROOF. COPPER DWV PIPING ONLY (NO PVC). SLOPE PIPING TO DRAIN.
- 2" CONDENSATE DRAIN PIPING DOWN THRU ROOF TO MOP SINK. TERMINATE WITH CODE APPROVED AIR-GAP, SEE DETAIL ON SHT. P.3.2.
- LOW PRESSURE GAS PIPING DOWN THRU ROOF TO WATER HEATER. PLUMBING CONTRACTOR TO PROVIDE PRESS. REDUCING REGULATOR. COORDINATE ROOF PENETRATION WITH ROOFING CONTRACTOR.
- CONDENSATE CONNECTION AT RTU (TYP OF 4). SEE DETAIL ON SHT. P.3.2.
- LOW PRESSURE GAS CONNECTION POINT FOR PIZZA OVEN. SEE KITCHEN EQUIPMENT MANUAL FOR FINAL CONNECTION REQUIREMENTS. SEE PIZZA OVEN GAS DETAIL ON SHT. P.3.2.
- APPROXIMATE LOCATION OF EXISTING SANITARY SEWER PIPING. LOCATION SHOWN AS INDICATED FROM INFORMATION PROVIDED BY THE LANDLORD. CONTRACTOR TO FIELD VERIFY EXACT LOCATION.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL GREASE WASTE INSPECTION PORT (TESTWELL). TESTWELL TO BE INSTALLED DOWN STREAM OF THE GREASE INTERCEPTOR PRIOR TO CONNECTING TO THE SANITARY WASTE SYSTEM. GENERAL CONTRACTOR TO REFER TO GREASE WASTE SYSTEMS INSTALLATION STANDARDS FOR THE CITY OF DOVER, DE. SEE CONTACT INFORMATION.
- CONNECT VENTS FROM GREASE INTERCEPTOR TOGETHER IN WALL AT 42" A.F.F., INSTALL WALL CLEANOUT ON VERTICAL VENTS AT 30" A.F.F. EXTEND VENT UP TO ROOF. TERMINATE THRU ROOF WITH CODE APPROVED 4" ICE-VENT.
- CONTRACTOR TO INSTALL NEW 2" DOMESTIC WATER OVERHEAD. CONNECT AT EXISTING 1 1/2" WATER METER. EXTEND NEW 2" WATER PIPING TO LEASE SPACE, PROVIDE AND INSTALL PIPING INSULATION AND PIPE HANGERS.



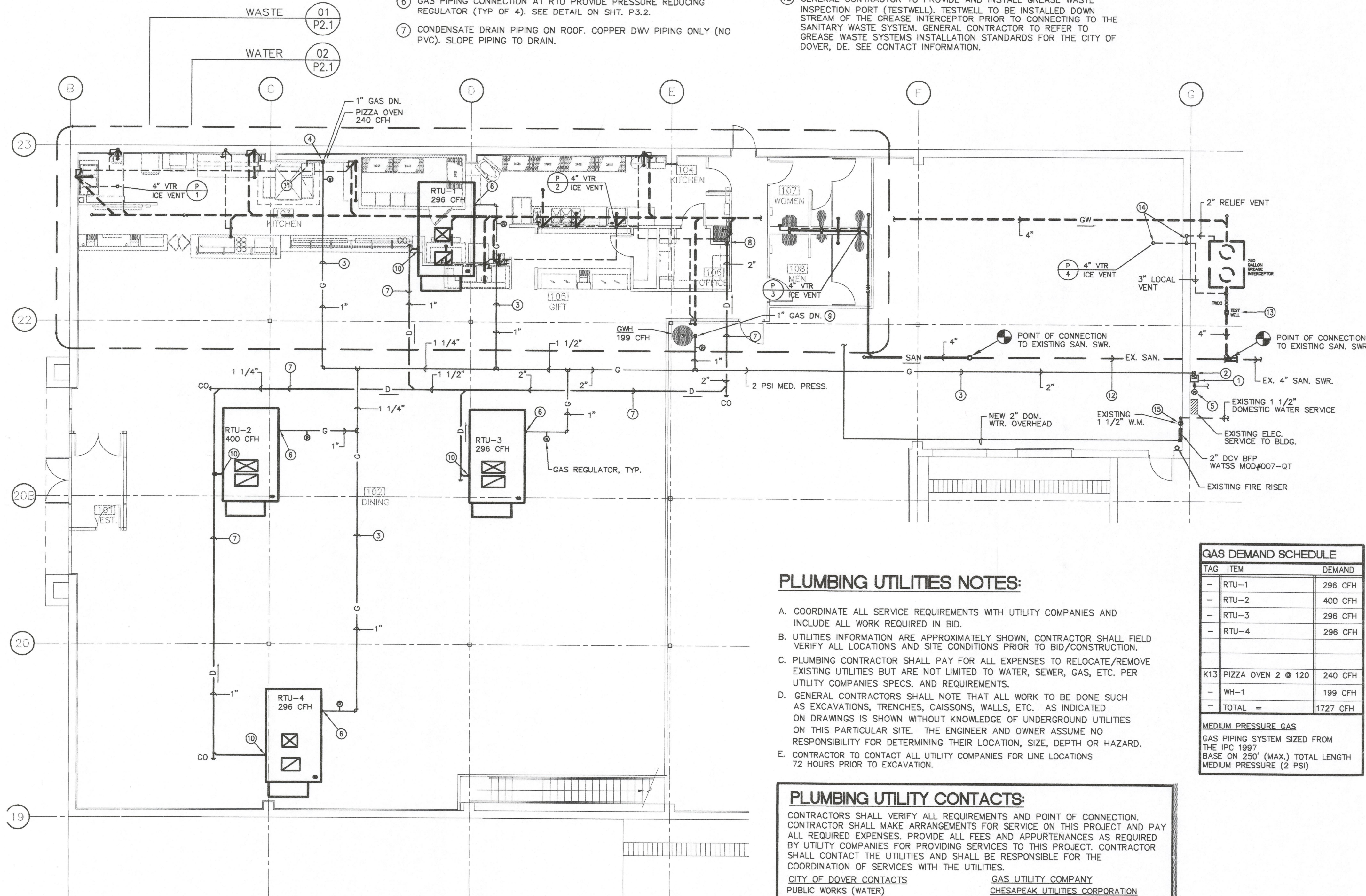
02 GREASE INTERCEPTOR DETAIL
Scale: NONE



03 TWO-WAY CLEANOUT DETAIL
Scale: NONE



04 TEST WELL DETAIL
Scale: NONE



PLUMBING UTILITIES NOTES:

- COORDINATE ALL SERVICE REQUIREMENTS WITH UTILITY COMPANIES AND INCLUDE ALL WORK REQUIRED IN BID.
- UTILITIES INFORMATION ARE APPROXIMATELY SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND SITE CONDITIONS PRIOR TO BID/CONSTRUCTION.
- PLUMBING CONTRACTOR SHALL PAY FOR ALL EXPENSES TO RELOCATE/REMOVE EXISTING UTILITIES BUT ARE NOT LIMITED TO WATER, SEWER, GAS, ETC. PER UTILITY COMPANIES SPECS. AND REQUIREMENTS.
- GENERAL CONTRACTORS SHALL NOTE THAT ALL WORK TO BE DONE SUCH AS EXCAVATIONS, TRENCHES, CAISSONS, WALLS, ETC. AS INDICATED ON DRAWINGS IS SHOWN WITHOUT KNOWLEDGE OF UNDERGROUND UTILITIES ON THIS PARTICULAR SITE. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR DETERMINING THEIR LOCATION, SIZE, DEPTH OR HAZARD.
- CONTRACTOR TO CONTACT ALL UTILITY COMPANIES FOR LINE LOCATIONS 72 HOURS PRIOR TO EXCAVATION.

PLUMBING UTILITY CONTACTS:

CONTRACTORS SHALL VERIFY ALL REQUIREMENTS AND POINT OF CONNECTION. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR SERVICE ON THIS PROJECT AND PAY ALL REQUIRED EXPENSES. PROVIDE ALL FEES AND APPURTENANCES AS REQUIRED BY UTILITY COMPANIES FOR PROVIDING SERVICES TO THIS PROJECT. CONTRACTOR SHALL CONTACT THE UTILITIES AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF SERVICES WITH THE UTILITIES.

CITY OF DOVER CONTACTS
PUBLIC WORKS (WATER)
CONTACT: ANDREW RIGGI
CONTACT: 302 736 7025

PLUMBING INSPECTIONS
CONTACT PERSON: CHRIS SCOTT
PHONE: 302 736 4453

GAS UTILITY COMPANY
CHESAPEAKE UTILITIES CORPORATION
350 S. QUEEN STREET
DOVER, DE 19904

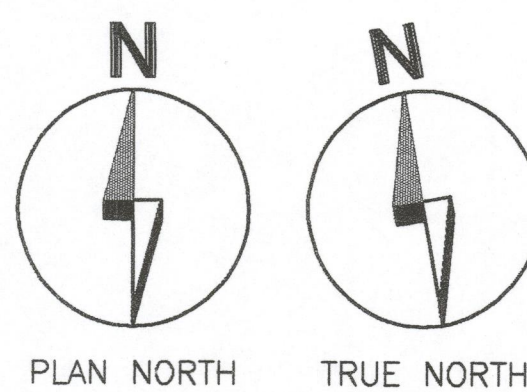
SERVICE PLANNERS
CONTACT: JIM FURGESSON
PHONE: 302 734 6797 EXT. 6801
FAX: 302 735 3061

1. CONTACT GAS COMPANY AT START OF CONSTRUCTION FOR METER SET AND SERVICE COORDINATION

GAS DEMAND SCHEDULE		
TAG	ITEM	DEMAND
-	RTU-1	296 CFH
-	RTU-2	400 CFH
-	RTU-3	296 CFH
-	RTU-4	296 CFH
K13	PIZZA OVEN 2 @ 120	240 CFH
-	WH-1	199 CFH
-	TOTAL	1727 CFH

MEDIUM PRESSURE GAS
GAS PIPING SYSTEM SIZED FROM THE IPC 1997
BASE ON 250' (MAX.) TOTAL LENGTH
MEDIUM PRESSURE (2 PSI)

PLAN NORTH FOR
ROOM FINISH SCHEDULE
ONLY REFER TO SITE
PLAN FOR TRUE NORTH



01 PLUMBING FLOOR PLAN
SCALE: 1/8"=1'-0"

LIPPE AND ASSOCIATES
CONSULTING ENGINEERS
15950 MIDWAY ROAD
ADDISON, TEXAS 75001
(972) 387-3500
FAX (972) 387-3849

DAVID R. LIPPE
REGISTERED PROFESSIONAL ENGINEER
53317
IP#220

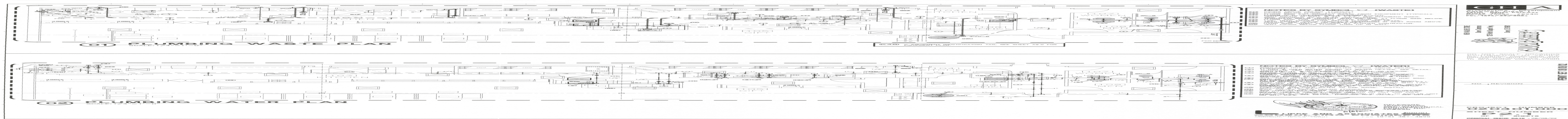
DELEWARE
TEMPORARY
MECHANICAL
AND ELECTRICAL
ENGINEERING
PERMIT NO:
IP#220

#020701

PROJECT NUMBER
020301.000

SHEET NUMBER
P1.1
OF 6 SHEETS

ORIGINAL ISSUE DATE - 08/08/02
DATE OF THIS PRINTING - 08/08/02



FIXTURE UNIT COUNT

ITEM	DESCRIPTION	LOCATION	QTY.	TRAP SIZE	SAN F.U.	TOTAL SAN F.U.	F.W. F.U.	C.W. F.U.	H.W. F.U.	H.W. TEMP.	SUPPLY SIZE	TOTAL WTR F.U.	COMMENTS:
WC-A	WATER CLOSET (HC)	TOILET ROOM	2	3"	6	12	-	10	-	-	1"	20	(HC) HEIGHT WATER CLOSET WITH FLUSHVALVE HANDLE INSTALLED ON ACCESSIBLE SIDE OF STALL
WC-B	WATER CLOSET	TOILET ROOM	1	3"	6	6	-	10	-	-	1"	10	STANDARD HEIGHT WATER CLOSET
UR	URINAL	TOILET ROOM	1	2"	2	2	-	5	-	-	3/4"	5	INSTALL AT (HC) HEIGHT WITH F.V. HANDLE ON ACCESSIBLE SIDE
LAV	LAVATORIES	TOILET ROOM	2	1.25"	1	2	-	1	1	TEMPERED 110° F.	1/2"	4	COVER DRAIN AND WATER PIPING WITH TRU-BRO LAV GUARD
FD-A	FLOOR DRAIN	TOILET ROOM	2	3"	5	10	-	-	-	-	-	-	PROVIDE TRAP PRIMER, SEE DETAIL

FIXTURE UNIT COUNT (KITCHEN GREASE WASTE)

K45	ICE-MACHINE	KITCHEN	1	3" FS	5	5	1	-	-	-	1/2'	1	FULL SIZE DRAIN INDIRECT TO F.S., WATER SUPPLY AT 73 3/4" A.F.F. WATER SUPPLY THRU FILTER, SEE KITCHEN EQUIPMENT MANUAL
K46/FS	3-COMP SINK	DISHWASH	1	4" FS	6	6	-	4	4	140" F.	1/2"	8	2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A.F.F. (2 FAUCETS) SEE KITCHEN EQUIPMENT MANUAL
K46.1/FS	PRE-RINSE	DISHWASH	1	-	-	SHARE W/K46	-	2	2	140" F.	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A.F.F. SEE KITCHEN EQUIPMENT MANUAL
K48/FS	DISHMACHINE	DISHWASH	1	4" FS	6	6	-	-	4	140" F.	3/4"	4	FULL SIZE DRAIN INDIRECT TO F.S., WATER SUPPLY AT 61 3/4" A.F.F. SEE KITCHEN EQUIPMENT MANUAL
K49	WATER FILTERS ICE MACHINE	KITCHEN	1	-	-	-	-	1	-	-	1/2'	SUPPLY TO ITEM 45	PROVIDE BACKFLOW PREVENTION AT WATER FILTER SUPPLY CONNECTION. SEE BACKFLOW PREVENTER SCHEDULE
FD-B	FLOOR DRAIN	DISHWASH	1	3" FD	5	5	-	-	-	-	-	-	
FS-A	SALAD BAR	KITCHEN	1	3" FS	5	5	-	-	-	-	-	-	FOR INDIRECT WASTE FROM COLD PANS
FD-B	FLOOR DRAIN	WATER HEATER	1	3" FD	5	5	-	-	-	-	-	-	TRAP PRIMER REQUIRED
K31	PREP SINK	KITCHEN	1	3" FS	5	5	-	2	2	140" F.	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 18" A.F.F. SEE KITCHEN EQUIPMENT MANUAL
FD-B	FLOOR DRAIN	KITCHEN	1	3" FD	5	5	-	-	-	-	-	-	
K63	HAND SINK	KITCHEN	1	1.25"	1	1	-	1	1	110" F.	1/2'	2	DIRECT CONNECT DRAIN, WATER AT 18" A.F.F., SEE KITCHEN EQUIPMENT MANUAL
FS-A	BEVERAGE COUNTER	BEVERAGE	1	3" FS	5	5	-	-	-	-	-	-	FOR INDIRECT WASTE FOR SODA DISPENSER AND OTHER EQUIPMENT
X03/ FD-B	BAG-N-BOX RACK	KITCHEN	1	3" FD	5	5	-	1	-	-	1/2'	1	WATER SUPPLY AT 78" A.F.F. PROVIDE RPZ VALVE WITH INDIRECT AT FLOOR DRAIN.
MS (K62)	MOP SINK	KITCHEN	1	3"	5	5	-	2	2	140" F.	3/4"	4	PROVIDE SHUT-OFF VALVES AND CHECK VALVES ON SUPPLIES ABOVE CEILING. INSTALL FAUCET AT 42" A.F.F.
X24	ECOLAB	KITCHEN	1	-	-	● MS	-	1	1	140" F.	1/2"	2	
FD-B	FLOOR DRAIN	KITCHEN	1	3" FD	5	5	-	-	-	-	-	-	FOR COOLER
TOTAL GREASE WASTE FU's					TOTAL		63						
SAN. - TOTAL: 32 FU's = 25 GPM FLOW													
GW - TOTAL: 63 FU's = 53 GPM FLOW													
TOTAL COMBINED SANITARY WASTE FU's					95		TOTAL DOM. WATER FU's					93	
DOM. WTR.		93 TOTAL FU's = 66 GPM = 2" DOMESTIC WATER SERVICE, 1 1/2" WATER METER, 2" DCV BFP											
SAN. WASTE		95 TOTAL FU's = 60 GPM = 4" WASTE PIPING ● 1/4" PER FOOT SLOPE											

PROJECT CHUCK E. CHEESE'S
LOCATION LAKE JACKSON, TEXAS
CODE 2000 IPC JOB# 020409

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER AND MODEL
LAV	LAVATORY WHITE VITREOUS CHINA 21" X 22" WALL HUNG WITH KNEE SHROUD AND SINGLE HANDLE FAUCET WITH GRID DRAIN (NO POP-UP) SHROUD: MOD # 0059.020	AMERICAN STANDARD "MURRO" 0954.000.020 FAUCET: AMERICAN STANDARD 1480.115 TRAP: MCGUIRE 8872 (LAV-GUARD) DRAIN (GRID): MCGUIRE 155-WC (LAV-GUARD) SUPPLIES: MCGUIRE 167 (LAV-GUARD) CARRIER: ZURN SERIES Z-1231
WC-A	WATER CLOSET WHITE VITREOUS CHINA ELONGATED SIPHON JET FLOOR MOUNTED 18" HIGH FOR HANDICAP	AMERICAN STANDARD "CADET AQUAMETER" 3043.102.020 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
WC-B	WATER CLOSET WHITE VITREOUS CHINA SIPHON JET FLOOR MOUNTED	AMERICAN STANDARD "MADERA AQUAMETER" 2234.015 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
UR	URINAL-ADA WHITE VITREOUS CHINA WASHOUT WALL HUNG	AMERICAN STANDARD "ALLBROOK" 6541.132.020 FLUSH VALVE: SLOAN 186-1 CARRIER: JOSAM 17810 SERIES
MS	MOP SINK TERRAZZO 24" 24" FLOOR MOUNTED WITH HOSE & BRACKET; MOP HANGER AND VINYL BUMPERGUARD	FIAT: MOD # TSB-200 FAUCET: FIAT 830-AA; HOSE & BRACKET: 832-AA MOP HANGER: FIAT 889-CC; STRAINER: 1453-BB BUMPERGUARD: FIAT E-77-AA
TMV ECOLAB FD-A	THERMOSTATIC MIXING VALVE WITH STRAIGHT STOPS AND CHECK VALVES HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, ROUND STRAINER AND TRAP PRIMER CONNECTION	VALVE: "LAWLER" MODEL # 3500-SC1 INSTALL WATTS RPZ MODEL # 009T-COT DRAIN: "PLASTIC ODDITIES" MOD. # PHD-800 PROVIDE P-TRAP WITH TRAP PRIMER CONNECTION CHECK CONNECTION SIZE WHEN ORDERING
FD-B	HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, ROUND STRAINER AND TRAP PRIMER CONNECTION	DRAIN: "PLASTIC ODDITIES" MOD. # PHD-800 CHECK CONNECTION SIZE WHEN ORDERING
FS	FLOOR SINK W/FULL NICKELAND GRATE AND REMOVABLE PLASTIC SECONDARY STRAINER	DRAIN: "PLASTIC ODDITIES" MOD. # PFS-400FN CHECK CONNECTION SIZE WHEN ORDERING
CWH WATER HEATER MV-1	LOW NOX - COMMERCIAL TANK TYPE WATER DELIVERY TEMP. - SET 140°F WTR. WITH INTERMITTENT IGNITION DEVICE	A.O. SMITH: BTN-200(A) GAS; 199 CFH; 6" FLUE CAP: 100 GAL. RECOVERY = 193 GPH @ 100° RISE EXPANSION TANK: AMTROL MODEL # ST-12
FPWH	MIXING VALVE AT HAND SINKS BELOW FIXTURE - SEE DETAIL	WATTS MODEL # USG-B-SC (SET AT 110°F) SATIN CHROME FINISH
FCO	FLOOR CLEANOUT HEAVY DUTY SOLID CLEANOUT	WOODFORD SERIES B65 LOOSE KEY
CO	CLEANOUT (EXTERIOR)	CLEANOUT: "PLASTIC ODDITIES" MOD. # PHC-640 W/6" SCORIATED BRASS COVER
WCO	STAINLESS STEEL WALL CLEANOUT ACCESS COVER W/SCREW	CLEANOUT: "PLASTIC ODDITIES" MOD. # PCO-734 W/6" SCORIATED BRASS COVER COVER: "PLASTIC ODDITIES" MOD. # SSA-600

- NOTES:
1. FIXTURE MANUFACTURER SHALL BE EQUAL TO THOSE LISTED.
 2. PROVIDE ALL CARRIERS AND SUPPORT MATERIALS REQUIRED FOR A SOLID, SECURE INSTALLATION.
 3. PROVIDE ALL DRAIN COVERS, ESCUTCHEONS, AND MISCELLANEOUS TRIM ITEMS FOR A NEAT APPEARANCE.
 4. ALL MOUNTED HEIGHTS SHALL BE VERIFIED WITH THE ELEVATIONS SHOWN ON THE ARCHITECTURAL PLANS.
 5. ALL SUPPLIES SHALL BE CHROME PLATED.
 6. COVER ALL DRAINS AND WATER PIPING UNDER SINKS, LAVATORIES AND COUNTERS DESIGNATED FOR USE BY THE HANDICAP WITH MOLDED CLOSED CELL VINYL EQUAL TO TRUBRO LAV-GUARD.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE		GAS DROP TO EQUIPMENT
	BUTTERFLY VALVE		WATER SERVICE LINE
	BALANCING VALVE		DOMESTIC COLD WATER
	CHECK VALVE		DOMESTIC HOT WATER
	GATE VALVE		DOMESTIC HOT WATER RETURN
	GAS PLUG COCK		SANITARY SEWER VENT
	WATER METER		SANITARY WASTE LINE
	WALL CLEANOUT		INDIRECT DRAIN
	FLOOR CLEANOUT		STORM DRAIN
	FLOW SWITCH		FIRE PROTECTION
	FLOOR SINK		NATURAL GAS LINE
	FLOOR DRAIN		FLANGE
	FLOOR DRAIN W/FUNNEL		UNION
	ROOF DRAIN		BRANCH - TOP CONNECTION
	HUB DRAIN		BRANCH - BOTTOM CONNECTION
	WALL HYDRANT OR HOSE BIBB		PIPE RISER
	WATER HAMMER ARRESTOR WITH SIZE		PIPE DROP
	VACUUM BREAKER		DRAIN LINE
	BACKFLOW PREVENTER		DIRECTION OF PIPE PITCH
	POINT OF CONNECTION - NEW TO EXISTING		DIRECTION OF FLOW
	THERMOMETER		FILTERED WATER
	GAS PRESSURE REGULATOR		

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.

FIRE PROTECTION

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING WITH A CERTIFIED FIRE PROTECTION SPECIALIST. FIRE PROTECTION SPECIALIST TO PROVIDE, FOR APPROVAL, CONSTRUCTION DOCUMENTS AND SPECIFICATIONS TO THE GOVERNING AUTHORITIES HAVING JURISDICTION. THE DOCUMENTS SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION OF A NEW FIRE PROTECTION SYSTEM AND/OR THE ADJUSTMENT OF AN EXISTING SPRINKLER SYSTEM. ALL FIRE PROTECTION SYSTEMS SHALL BE COORDINATED WITH ALL OTHER TRADES AND ARCHITECTURAL CHARACTERISTICS OF THE PROJECT.

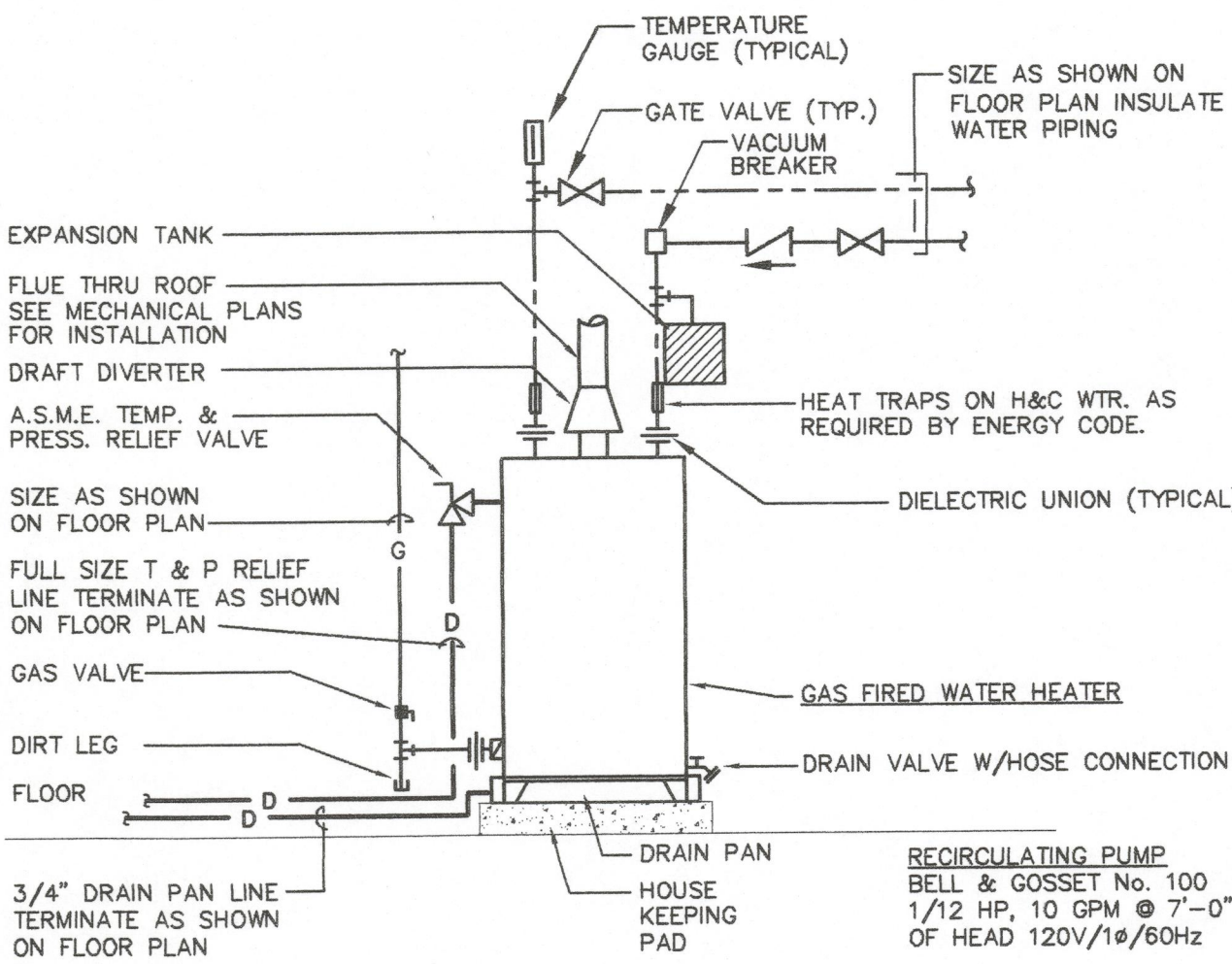
GENERAL NOTES

1. VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AND KITCHEN EQUIPMENT FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS. PROVIDE WALL BACKING FOR ALL WALL MOUNTED PLUMBING FIXTURES AND ACCESSORIES.
3. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL PERMITS, FEES, CHARGES AND METERS.
4. TERMINATE ALL VENT AND FLUE OUTLETS AT 10'-0" MIN. FROM ANY FRESH AIR INTAKES.
5. INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS. INSURE THAT ALL WATER LINES INSIDE WALLS ARE ADEQUATELY SECURED.
6. PROVIDE FAUCETS UNLESS OTHERWISE NOTED, TRAPS, STOPS, GATE VALVES, GAS COCKS, WATER HAMMER ARRESTERS, WALL CLEANOUTS, CLEANOUT COVERS, FLEX CONNECTIONS, SHUT-OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY INSTALLED & CONNECTED PLUMBING SYSTEM.
7. RECORD ON AS-BUILT DRAWINGS, ALL SIZES, LOCATIONS, INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS-BUILTS TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECT.
9. UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
10. TERMINATE ALL INDIRECT WASTE LINES ABOVE FLOOR SINK WITH AIT GAP. AIR GAP MUST BE TWICE THE SIZE OF THE INDIRECT DRAIN LINE DIAMETER AND NO LESS THAN 1". PROVIDE AND INSTALL COPPER DWV PIPING "NO PVC PIPING ALLOWED".
11. PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT. PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS.
12. VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION. REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO UNIT.
13. PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR SINKS AND FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR. FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.

BACKFLOW PREVENTER SCHEDULE

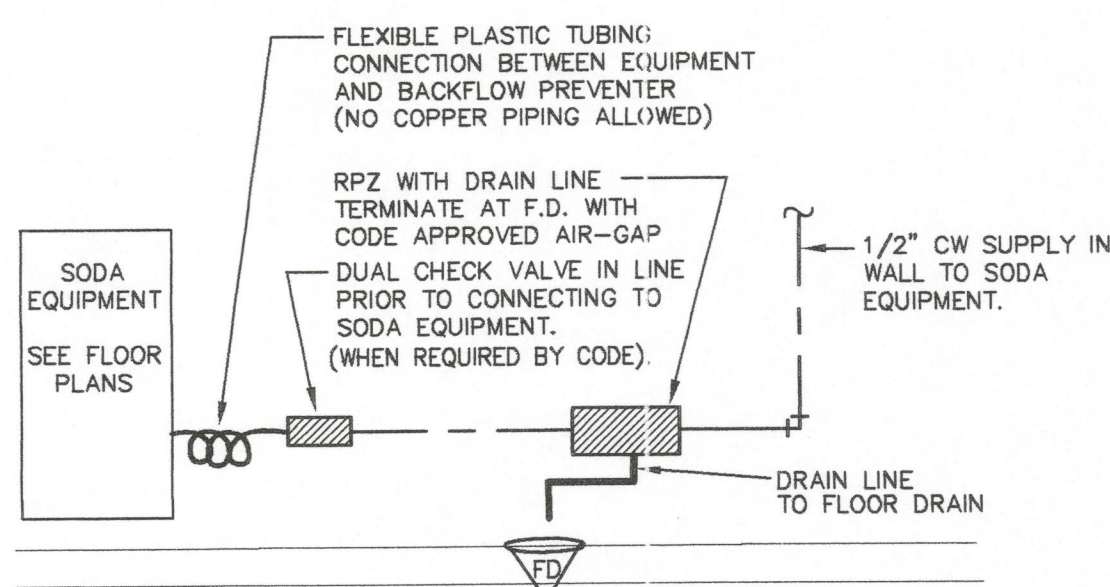
PROVIDE RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTER WATTS SERIES # 009QT-SS, STAINLESS STEEL WITH ASSE 1013 LISTING, AND DUAL CHECK VALVE CHUDNOW SERIES # 914 (OR EQUAL) WITH ASSE 1032 LISTING. VALVE MUST BE STAINLESS STEEL, AT SODA EQUIPMENT WATER SUPPLY CONNECTIONS. PROVIDE FLEXIBLE PLASTIC SUPPLY LINE AT FINAL CONNECTION TO EQUIPMENT (COPPER PIPING NOT ALLOWED).

DESCRIPTION	VALVE
SODA EQUIPMENT	# 914
SODA EQUIPMENT	# 009QT-SS
SODA DISPENSER	# 914
PROVIDE BACKFLOW PREVENTER WATTS MODEL # 9BD SERIES (OR EQUAL). INSTALL AT EQUIPMENT CONNECTIONS. FOR THE ITEMS LISTED BELOW.	
DESCRIPTION	VALVE
ICE MACHINE	# 9BD



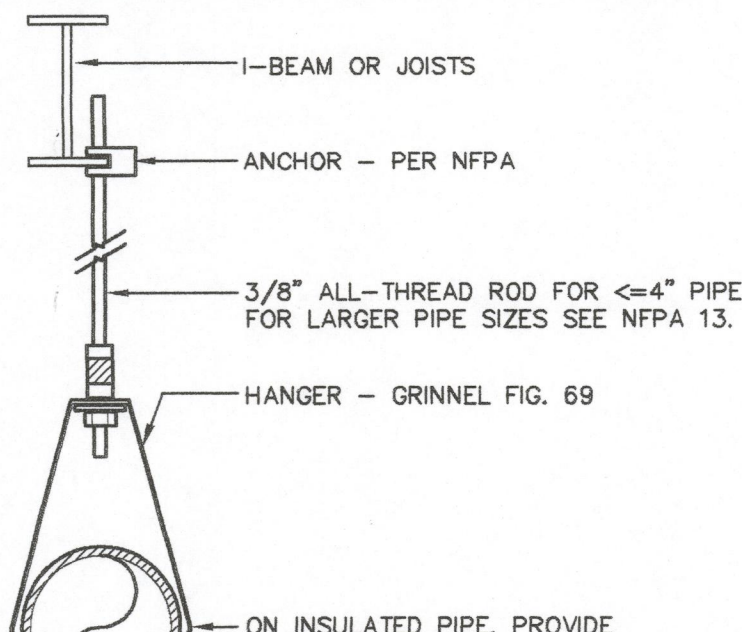
01 GAS WATER HEATER

Scale: NONE



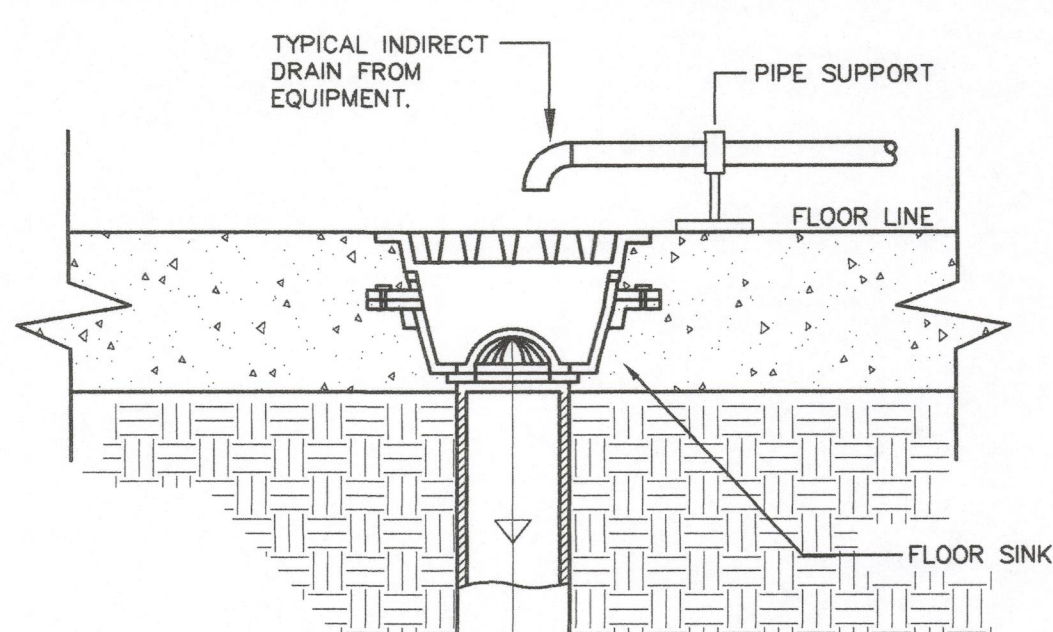
02 SODA SYSTEM B.F.P.

Scale: NONE



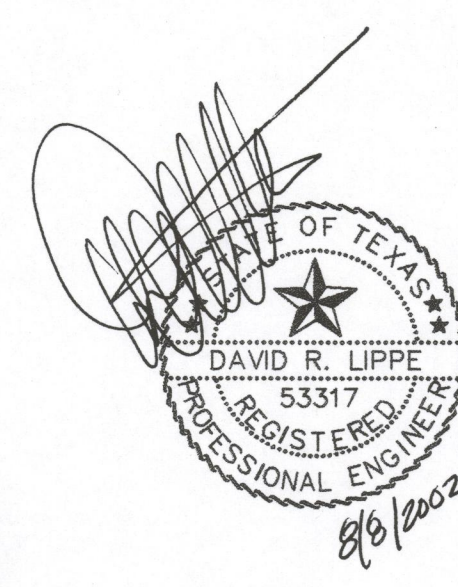
03 PIPE HANGER DETAIL

Scale: NONE



04 FLOOR SINK DETAIL

Scale: NONE



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GH A

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Fax: (972) 239-5054

NEW IN-LINE STORE
Dover Commons
1275 North Dupont Hwy.
Dover, DE 19901



DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
ALL EXISTING CONDITIONS AND
DIMENSIONS-NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

PERMIT SET 08/08/02

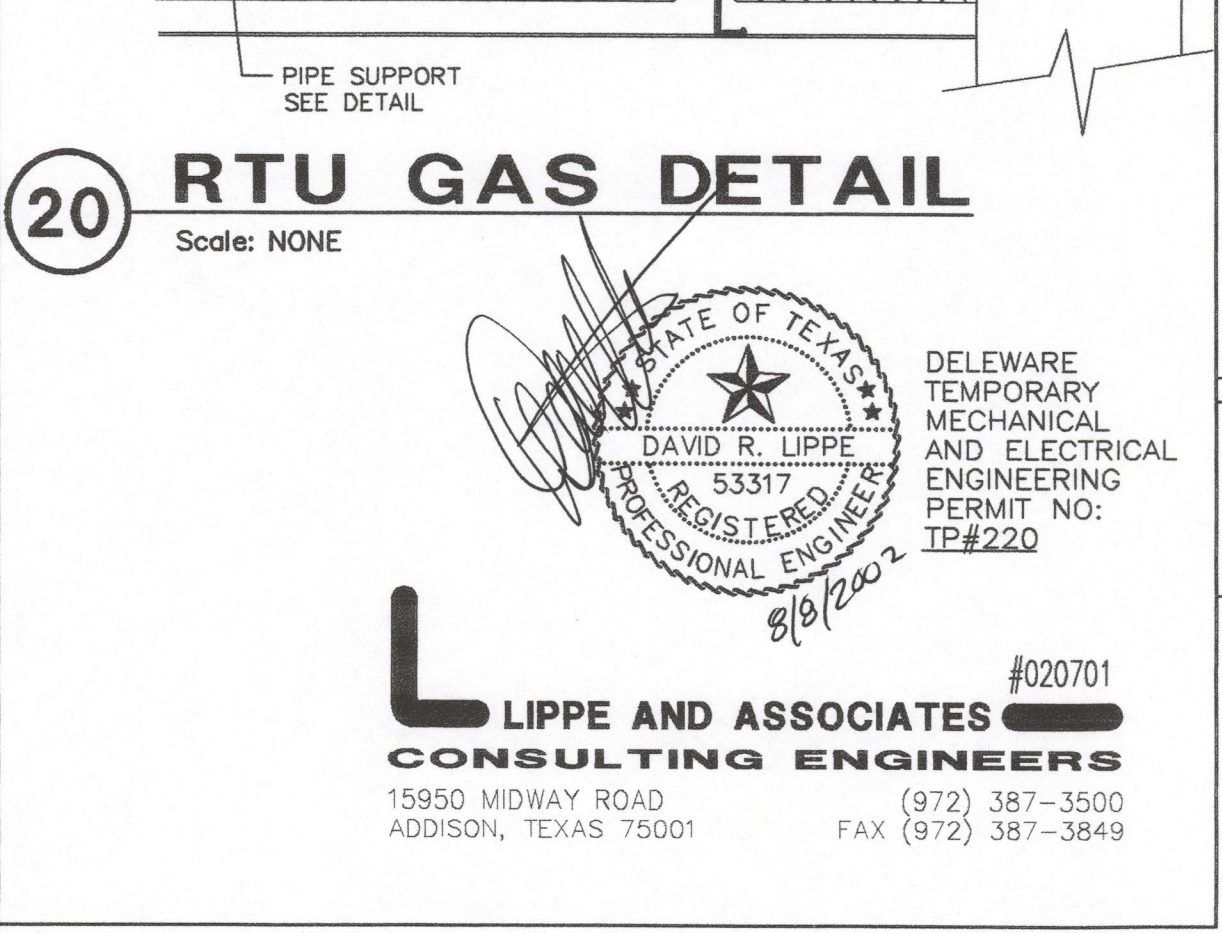
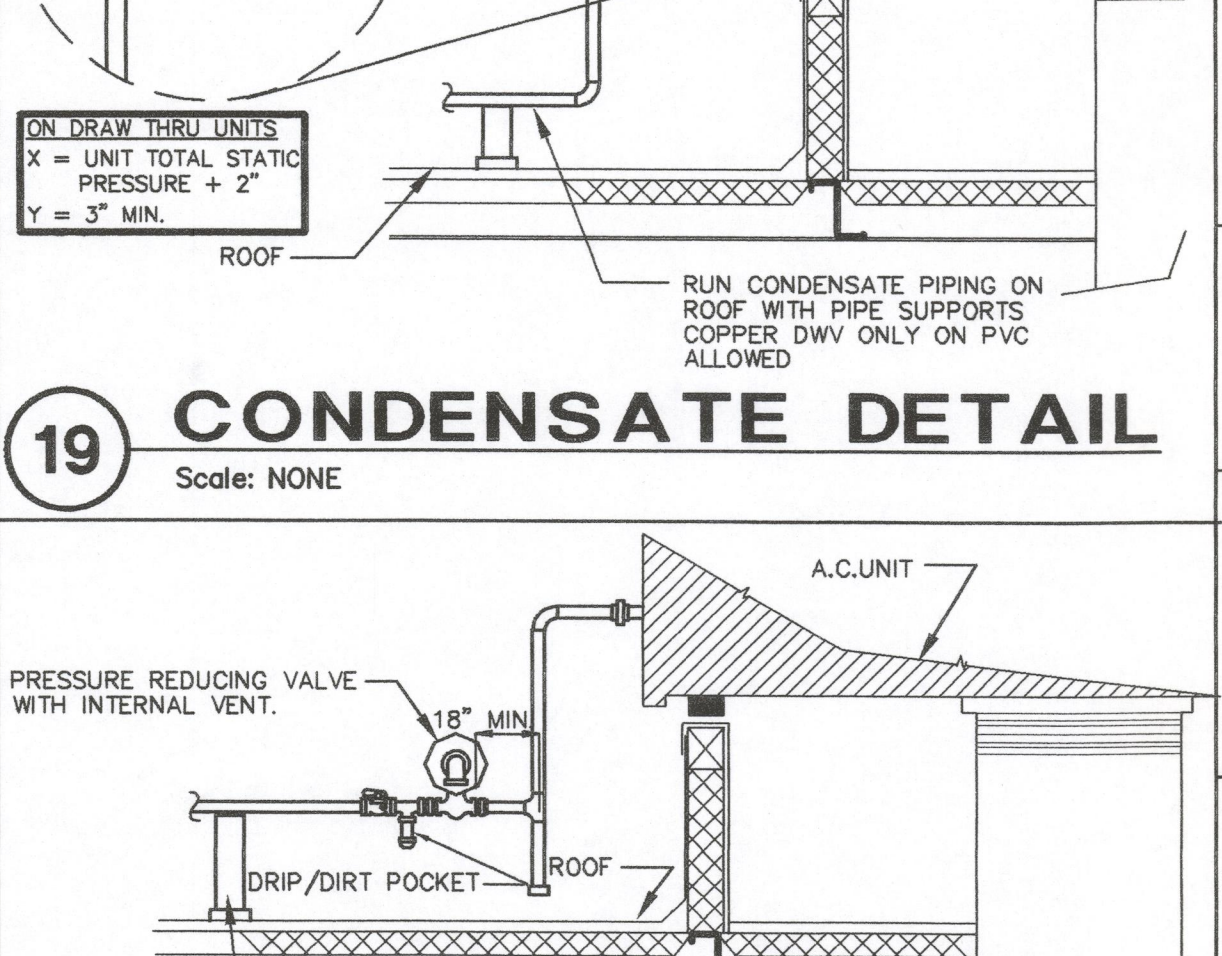
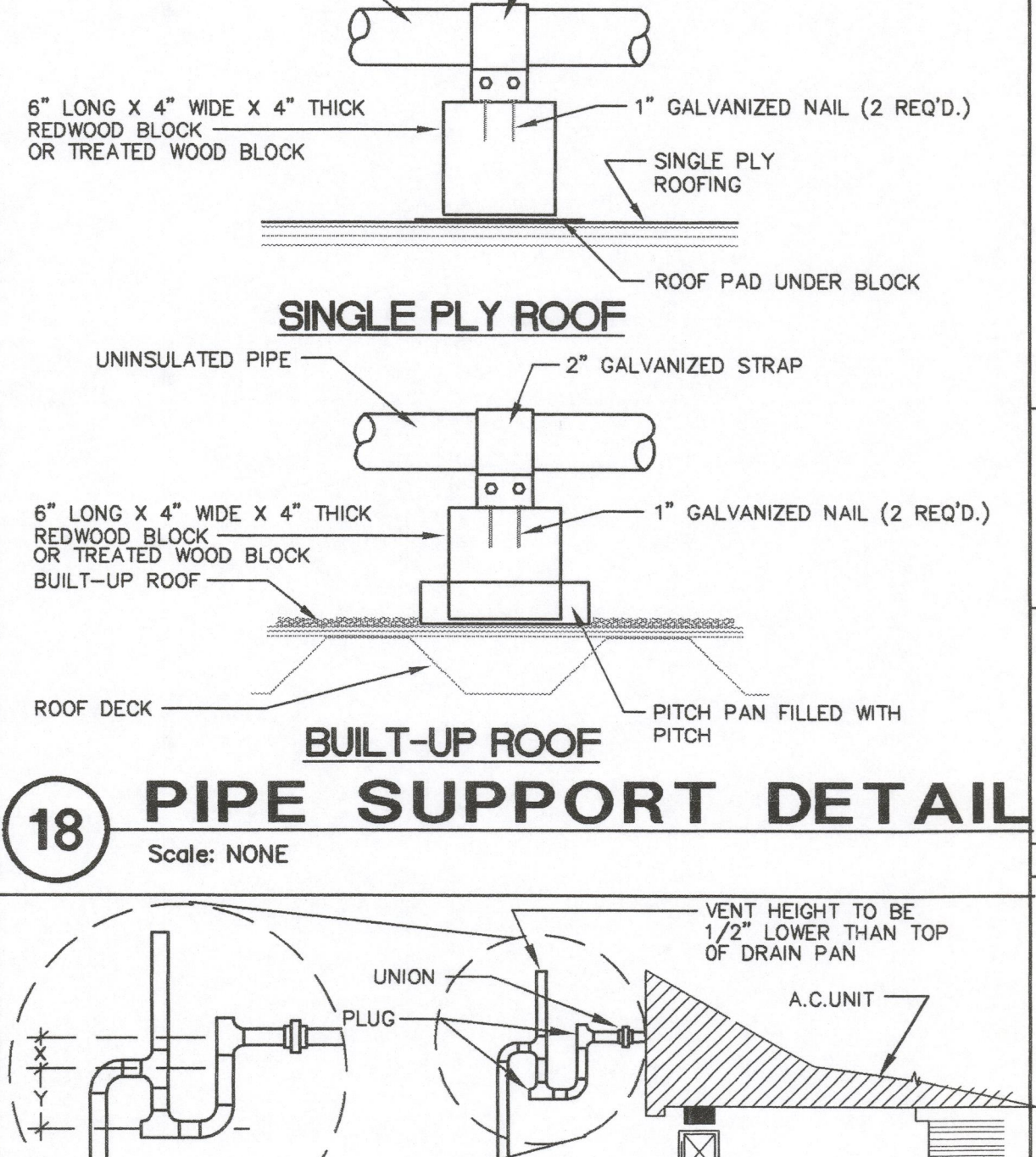
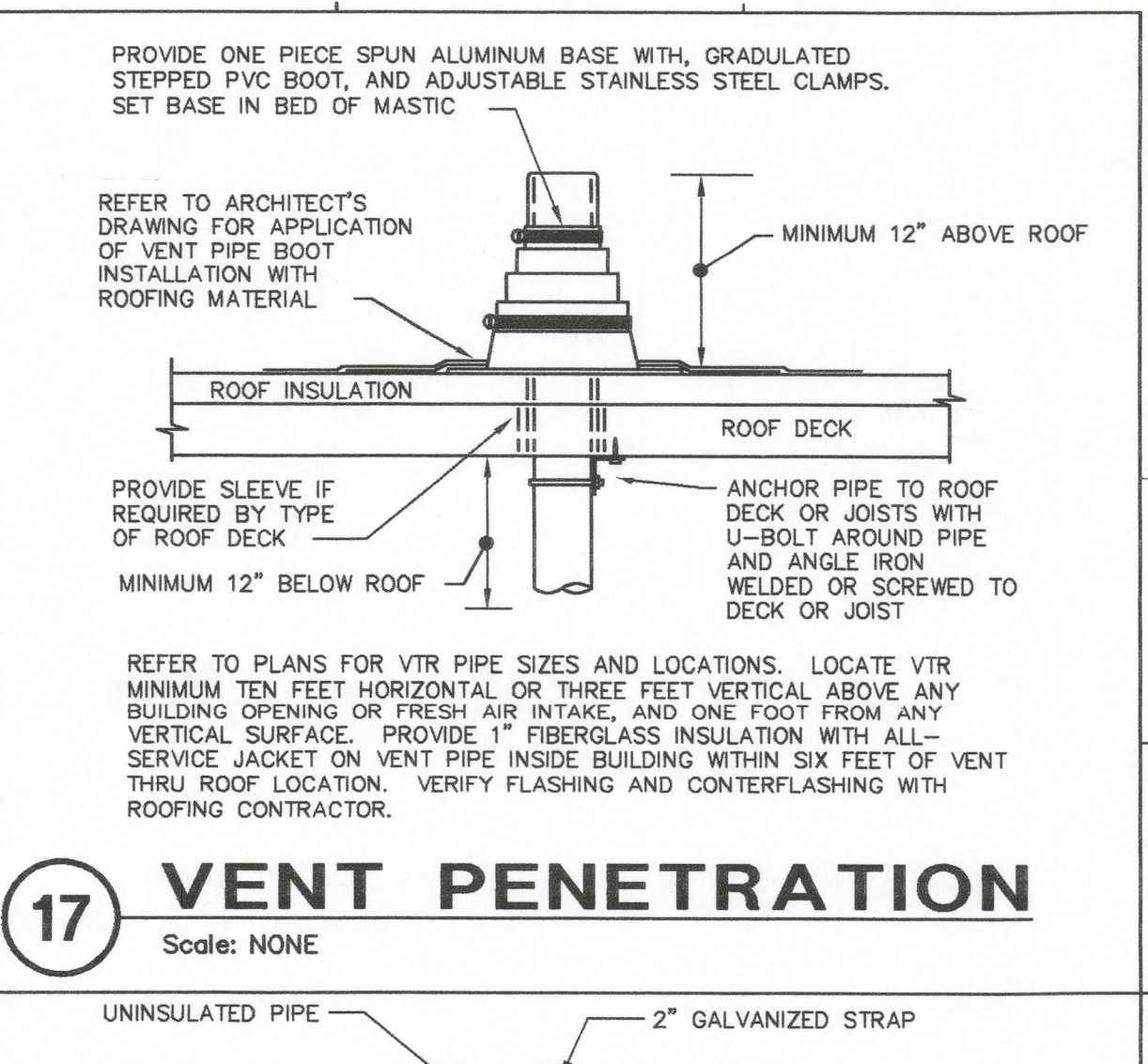
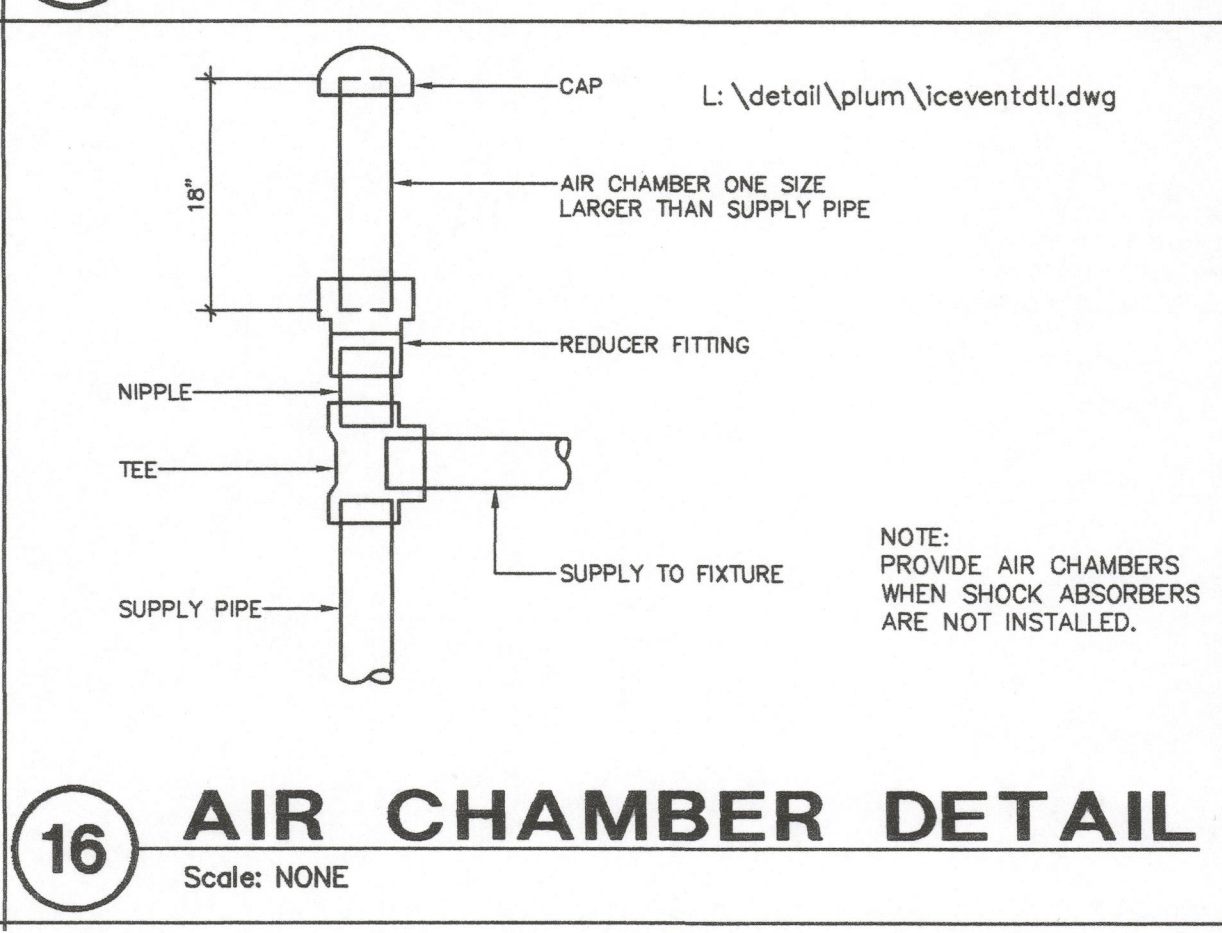
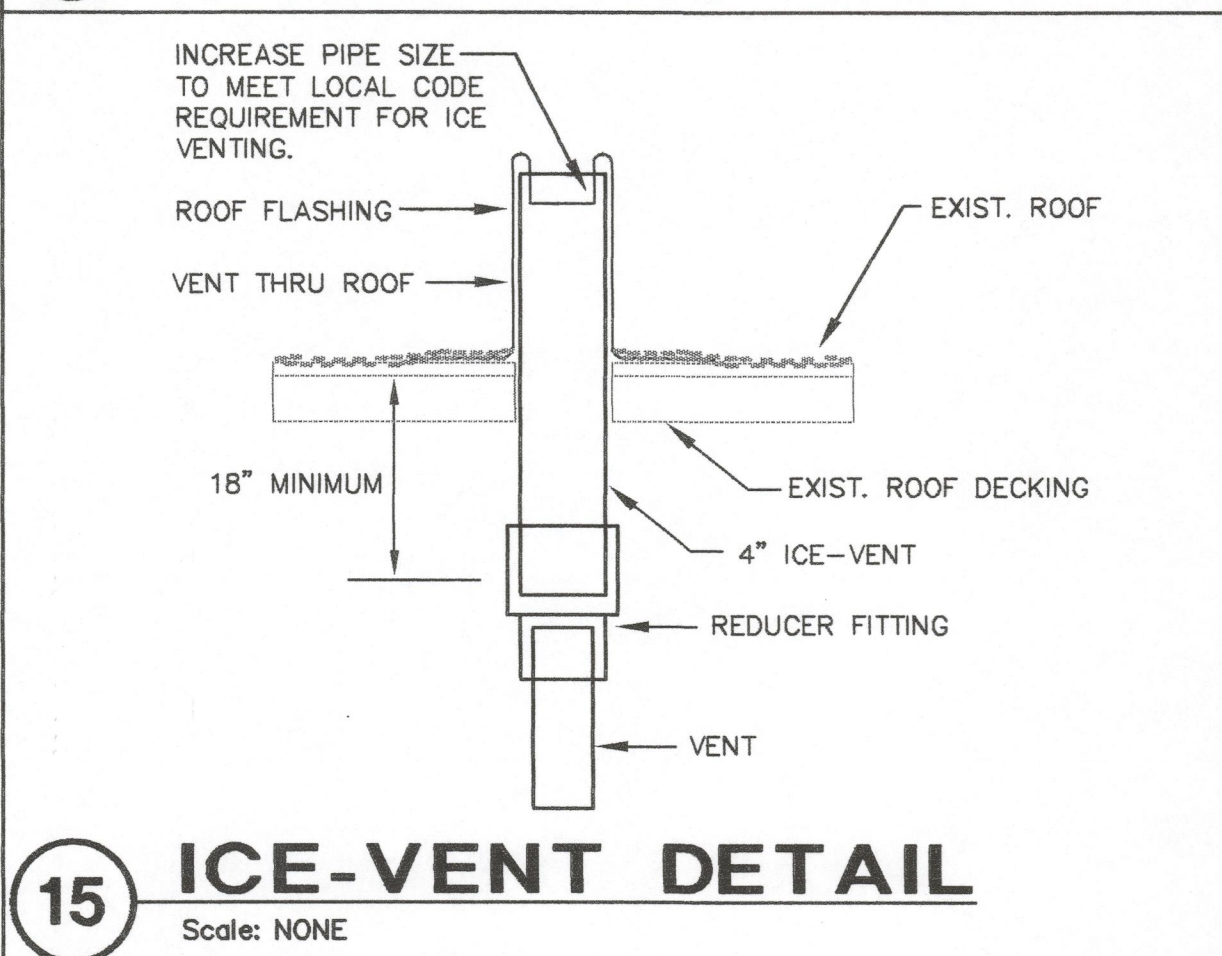
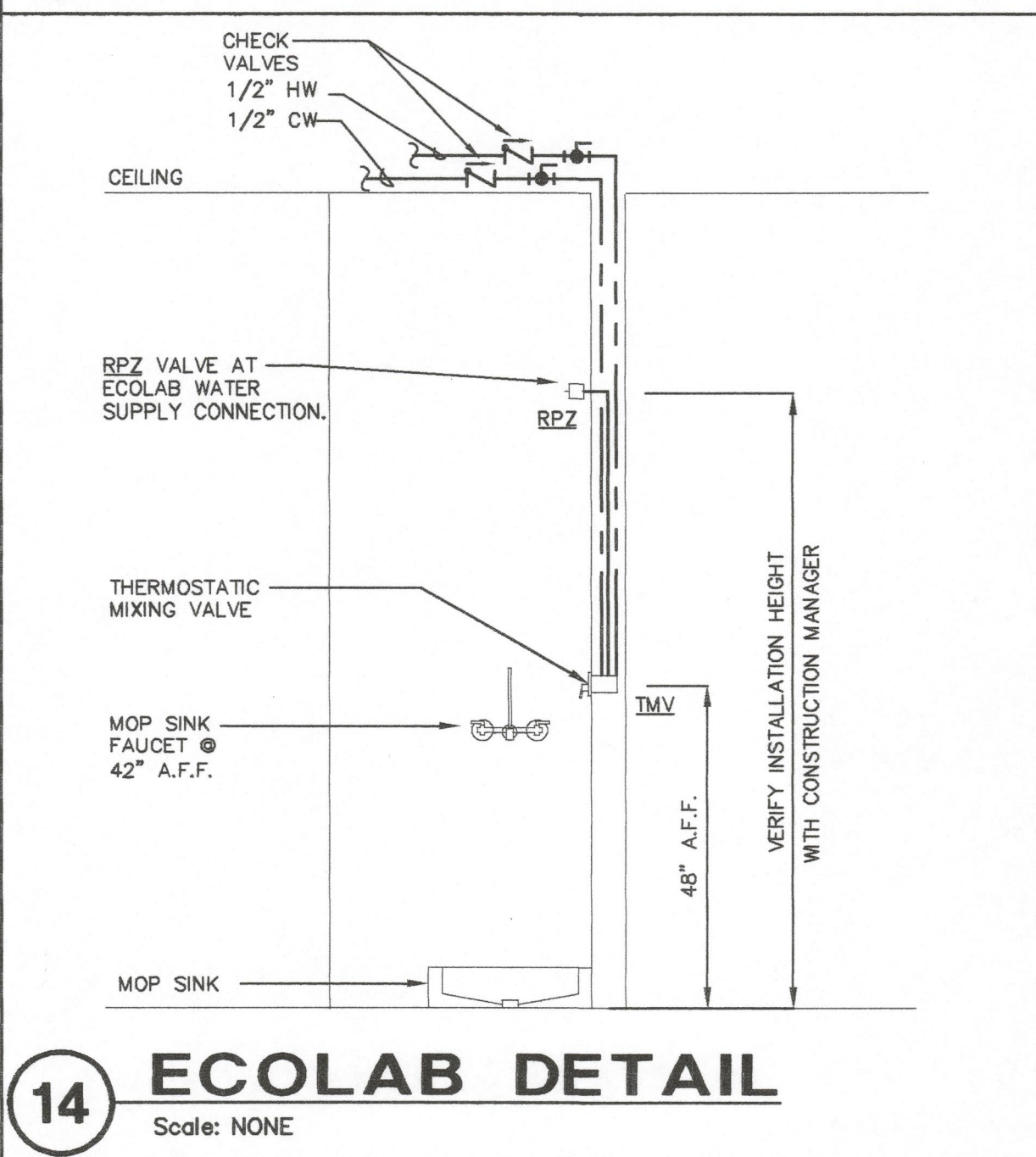
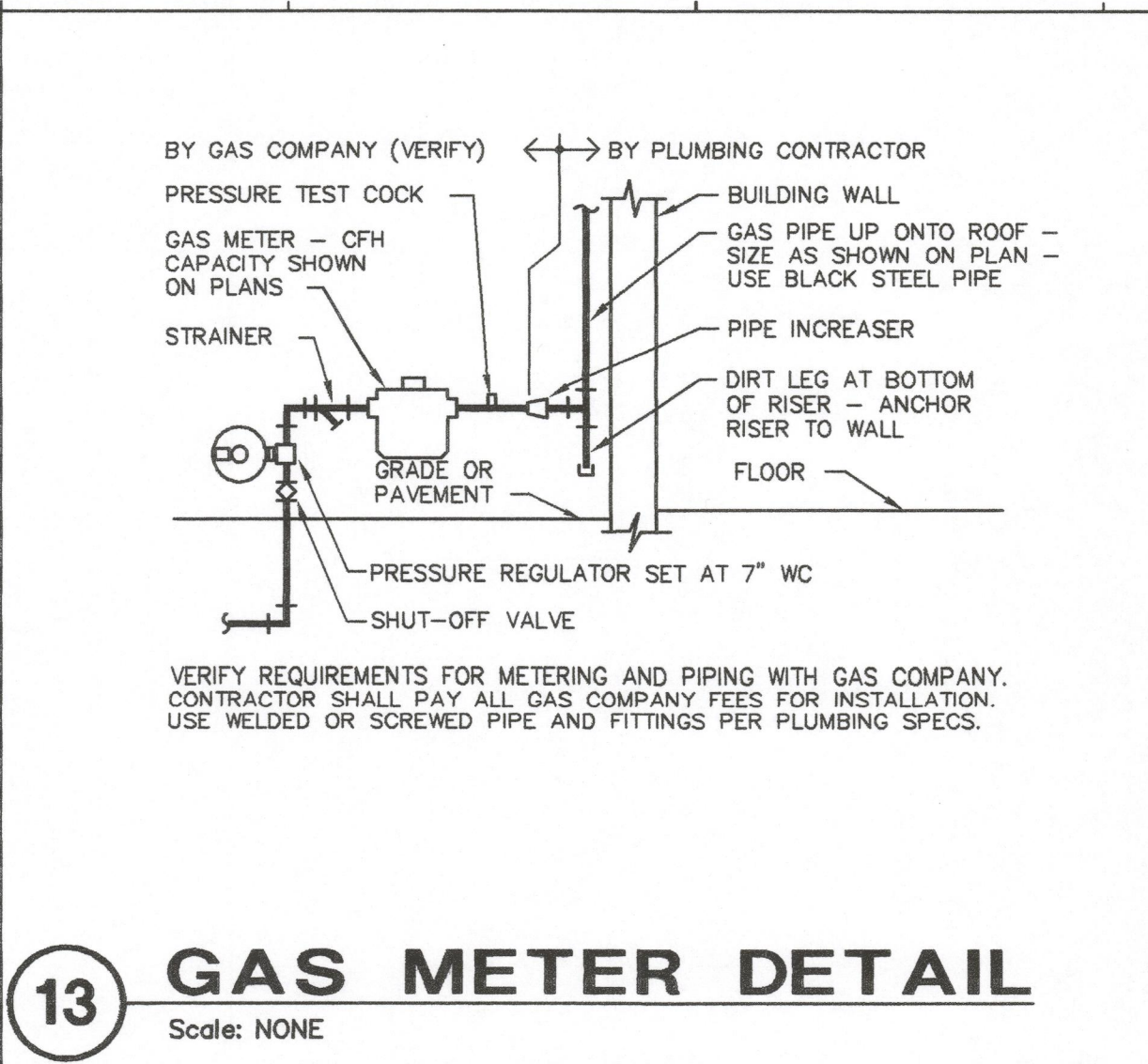
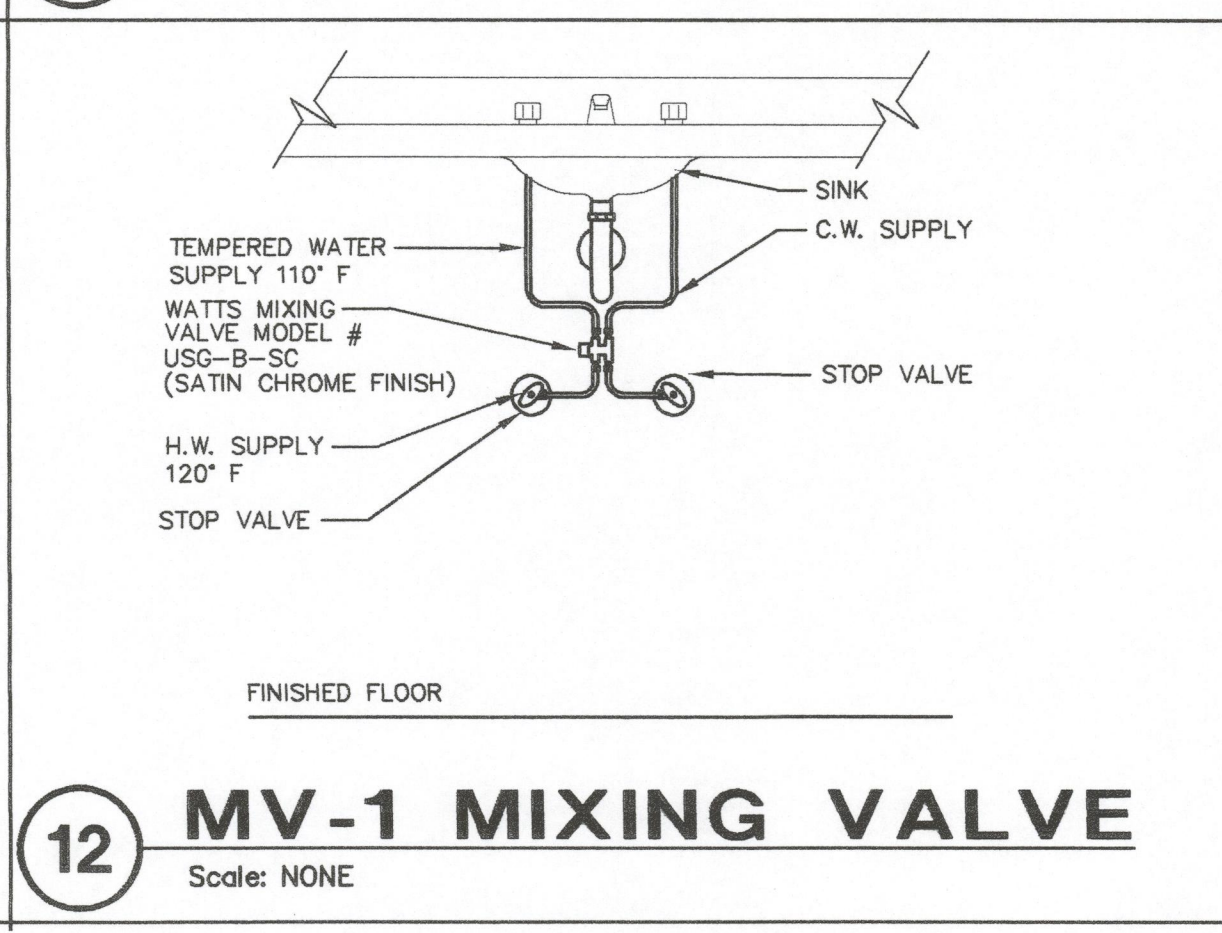
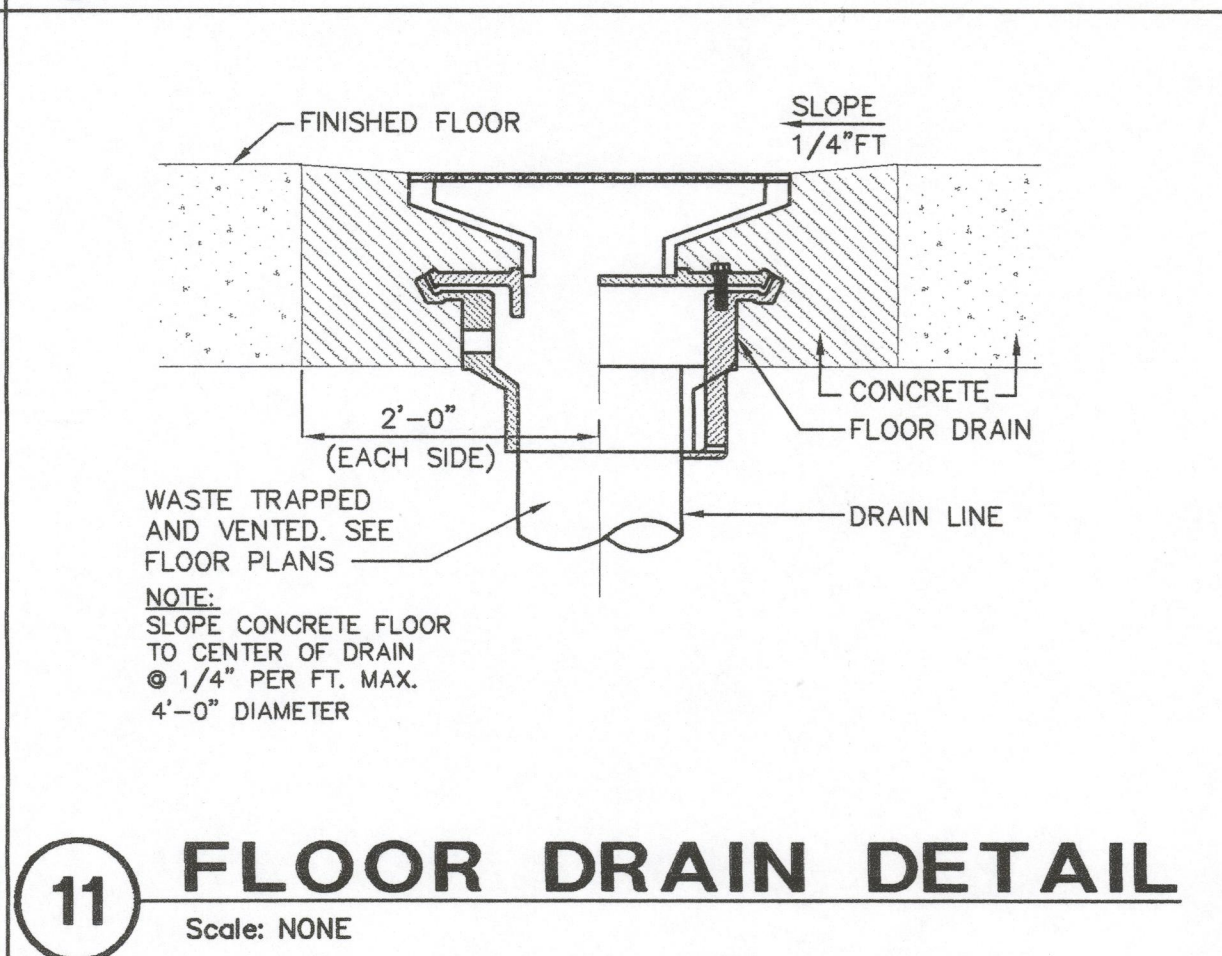
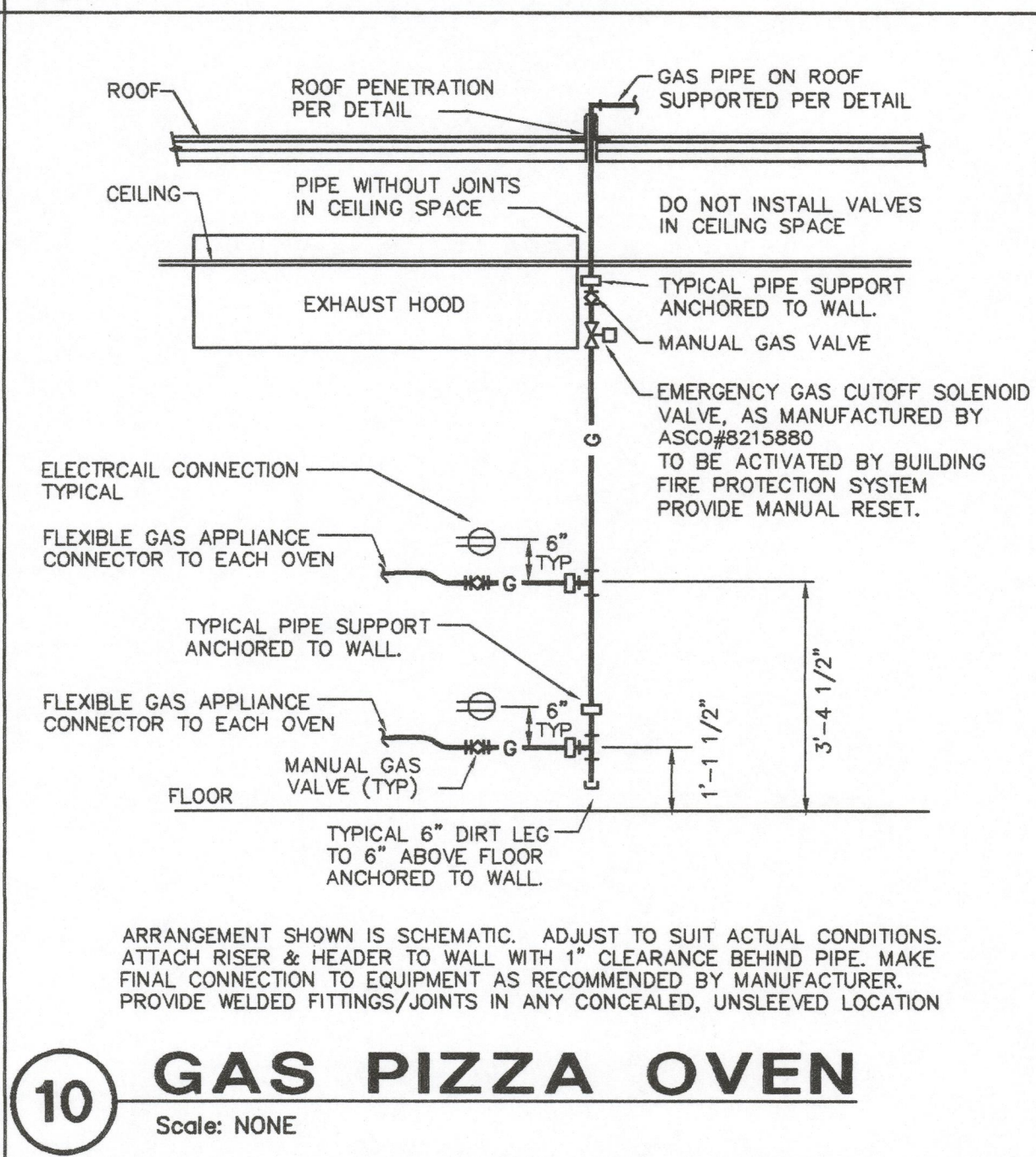
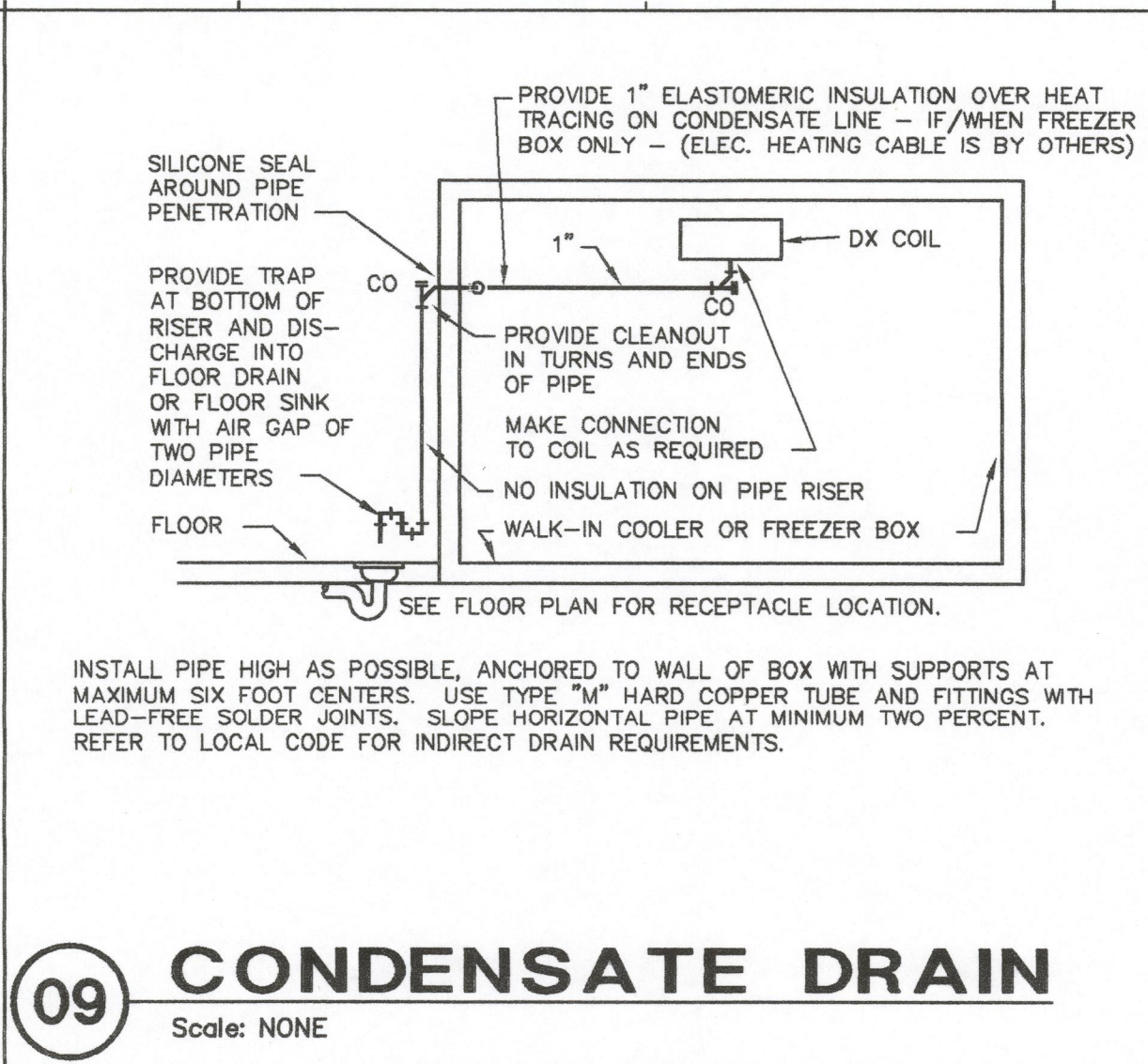
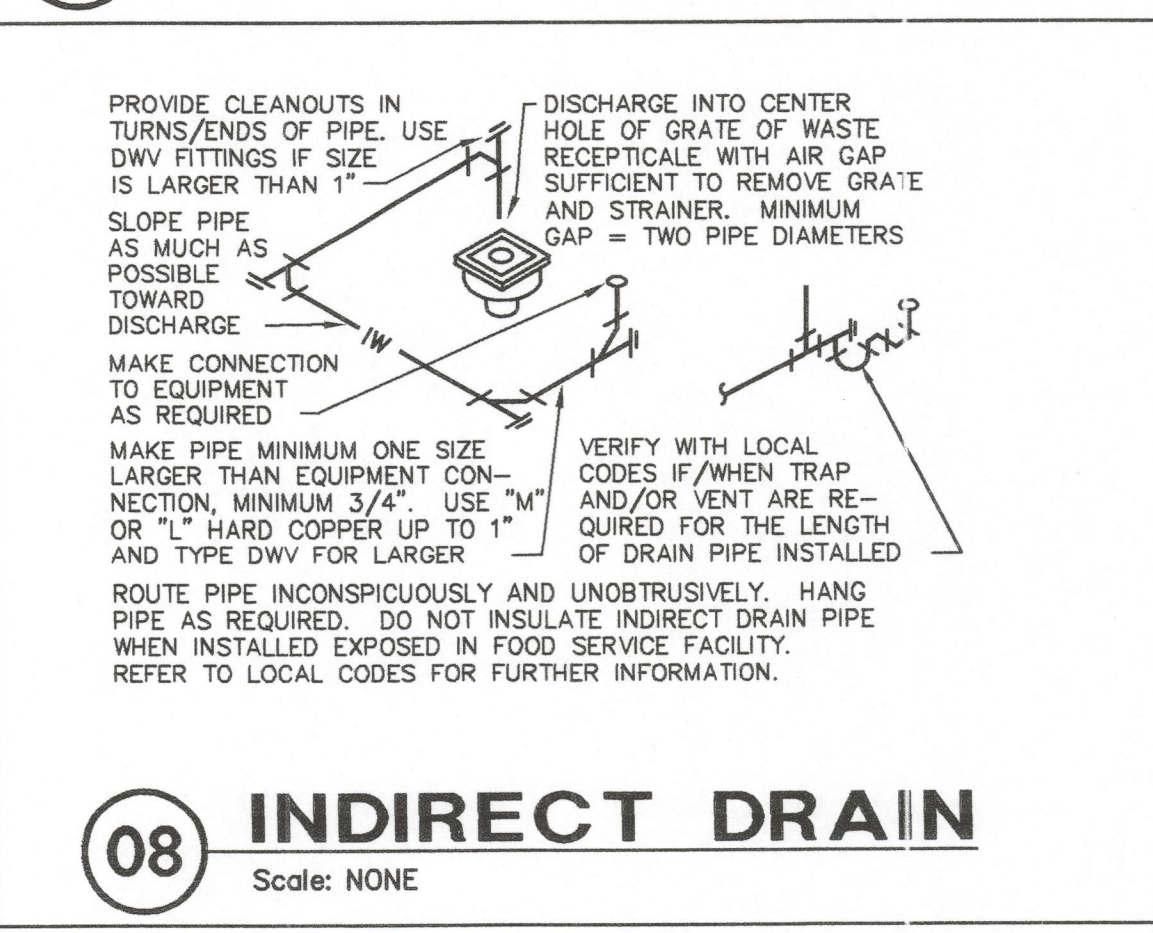
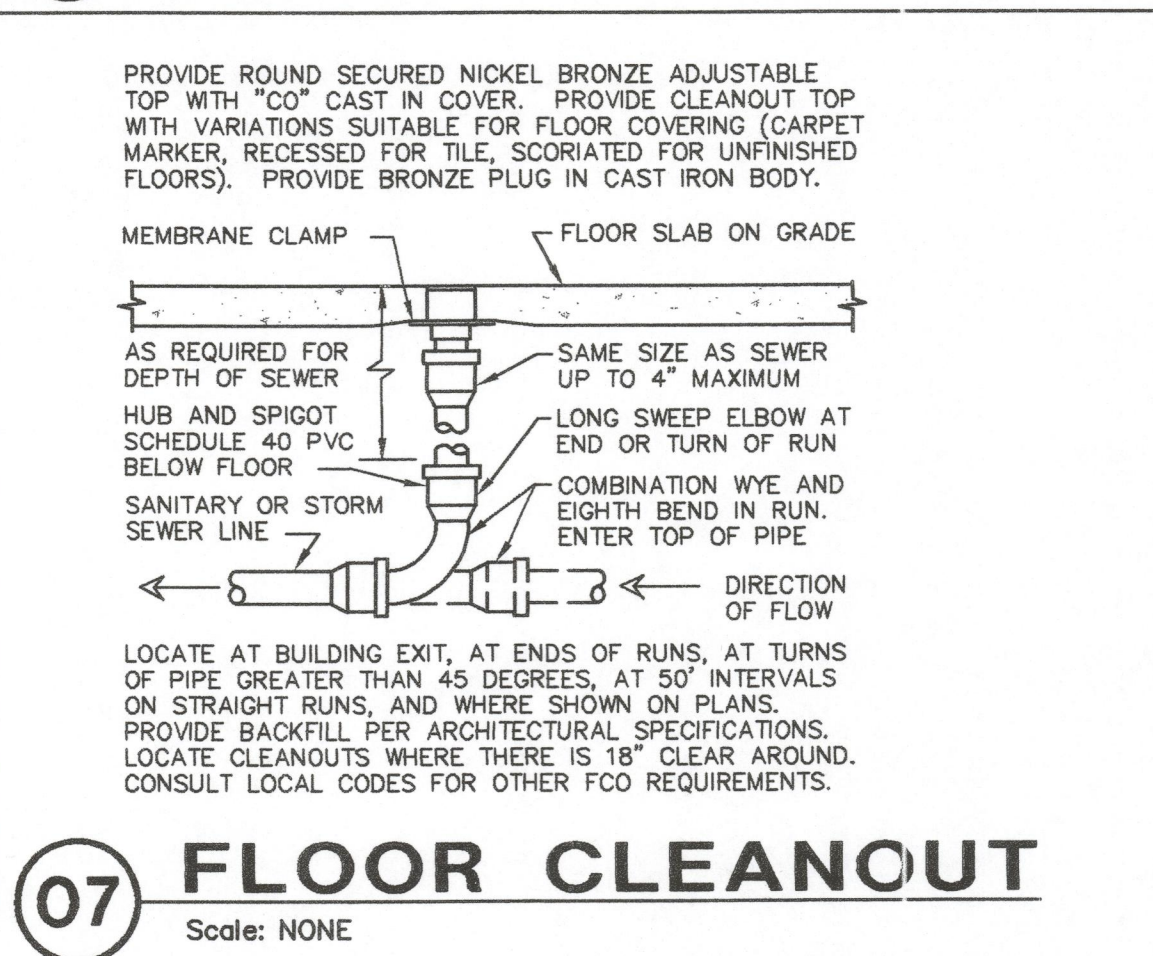
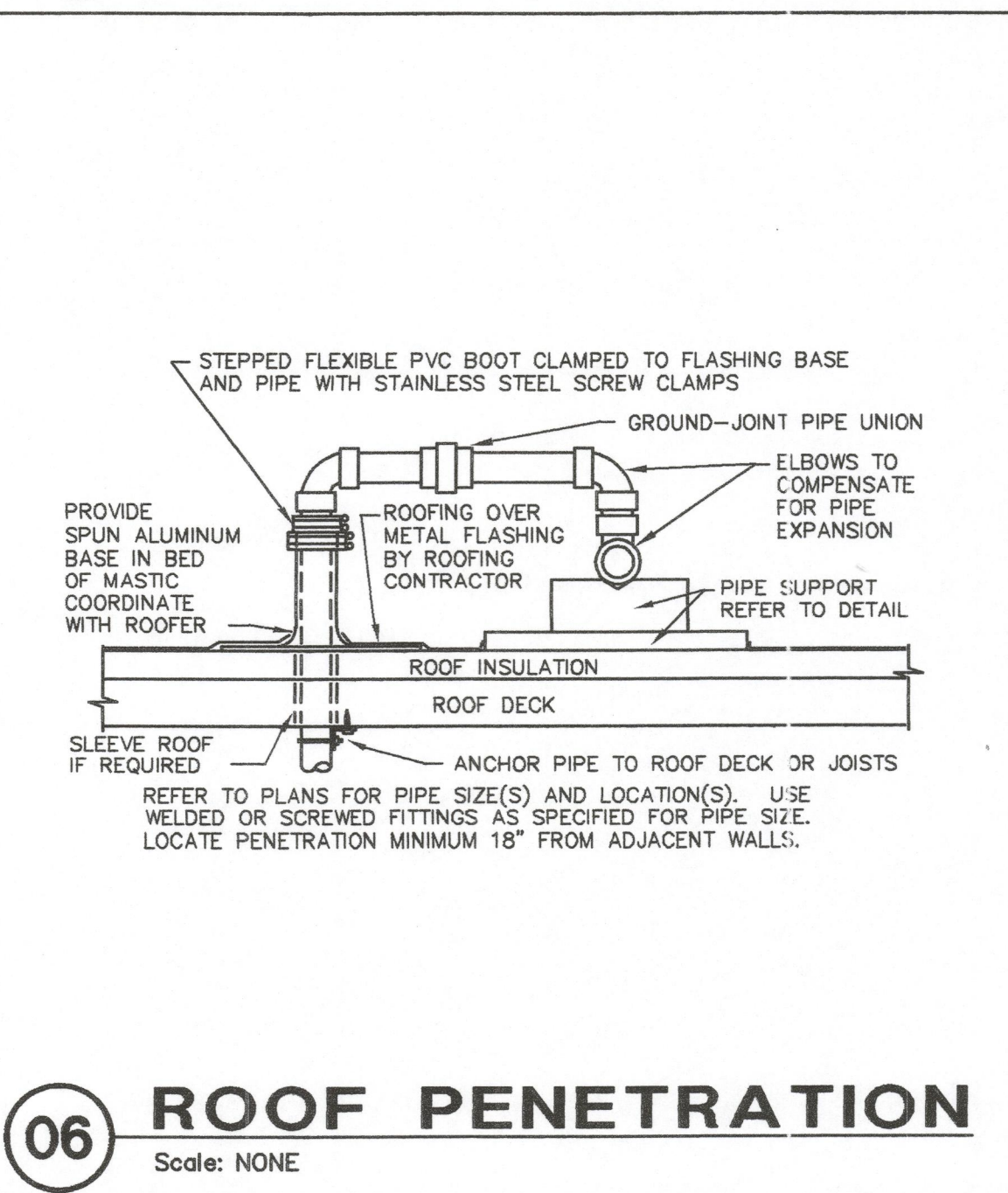
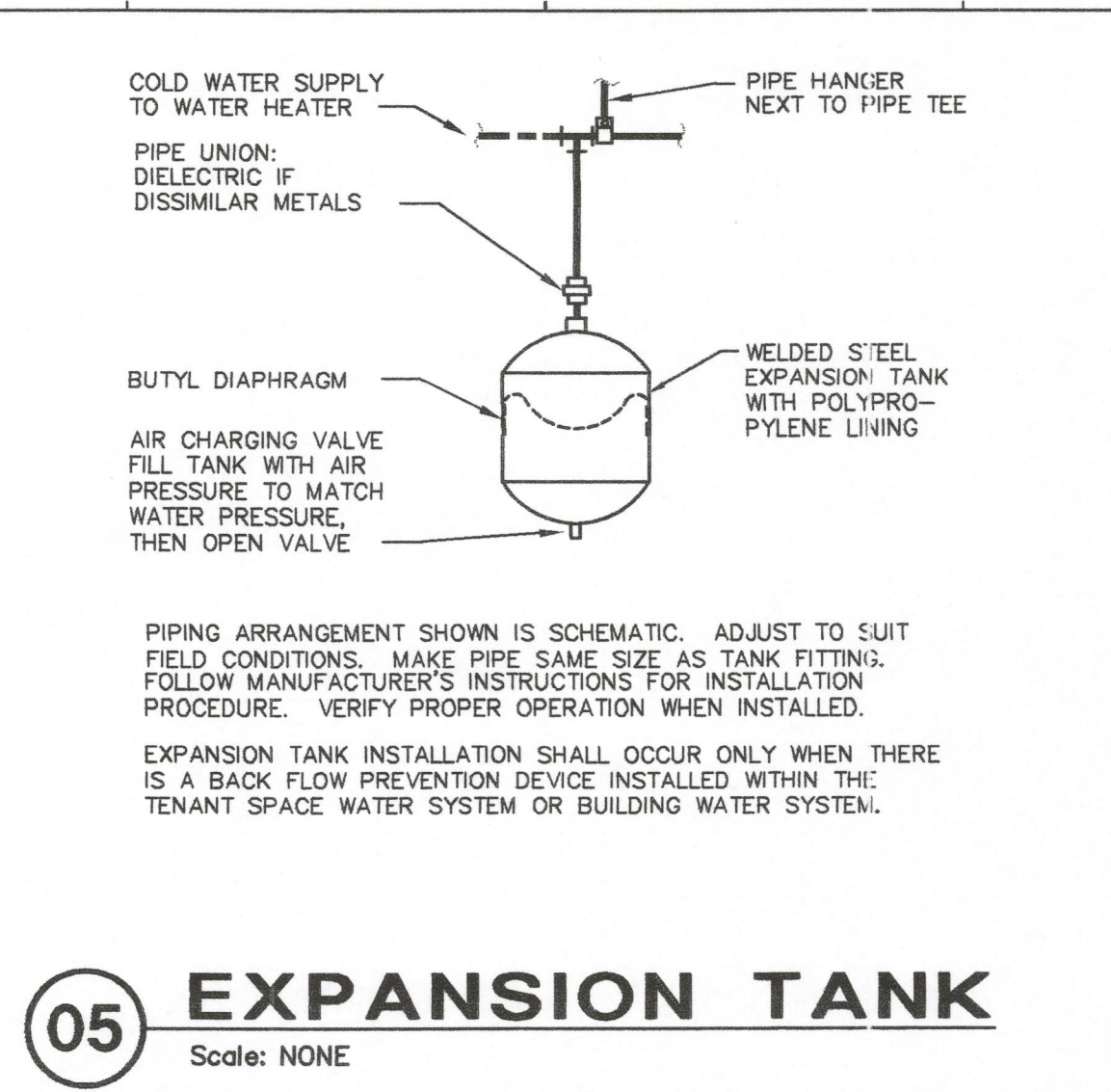
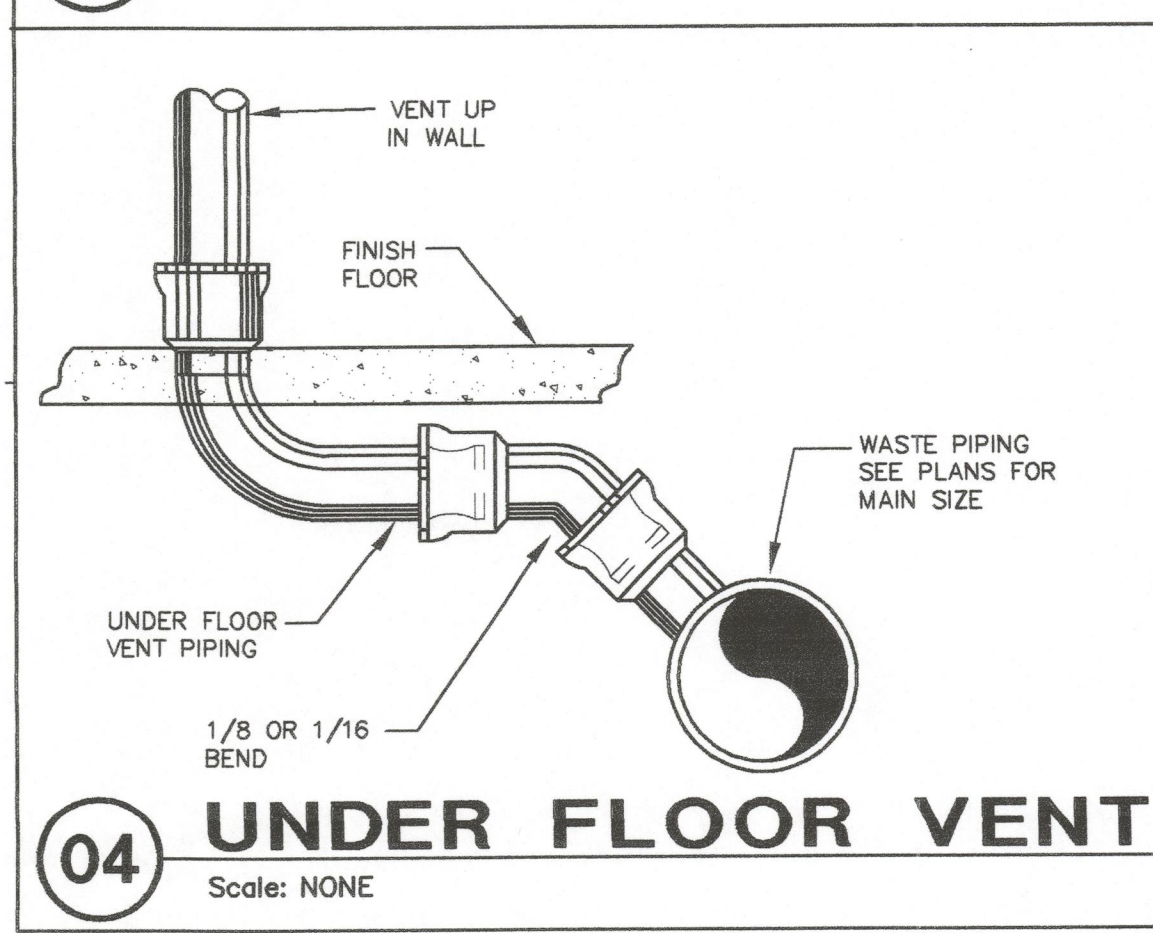
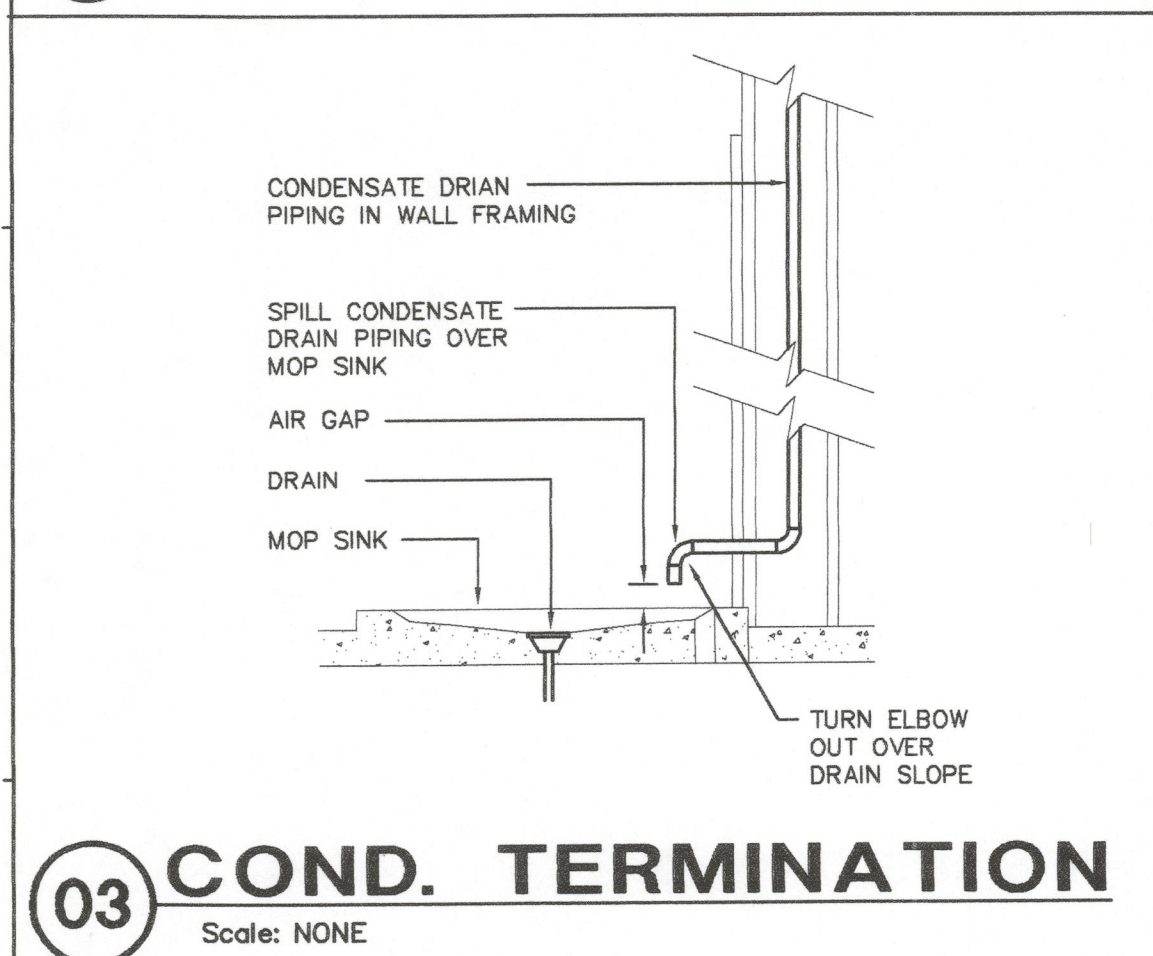
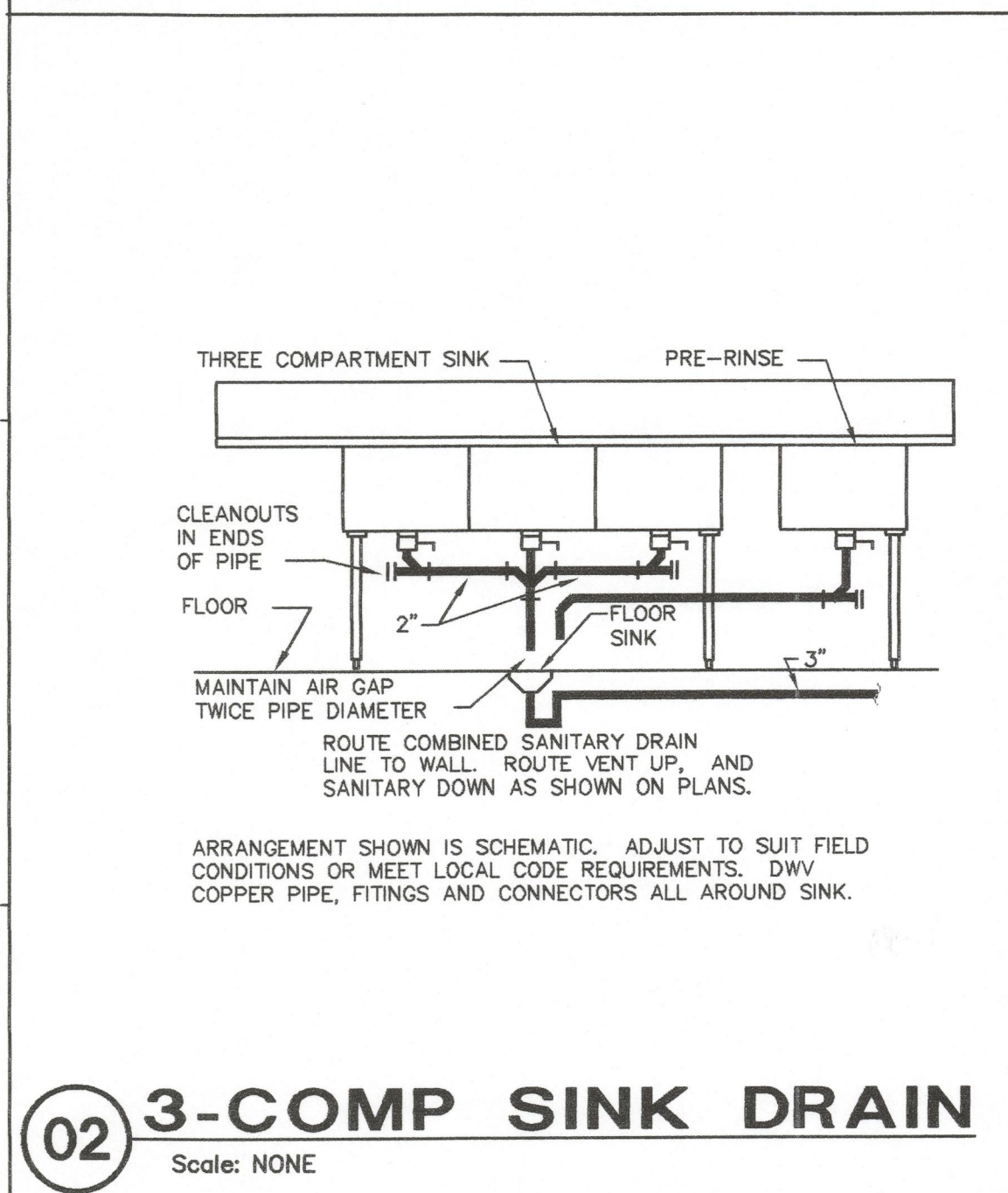
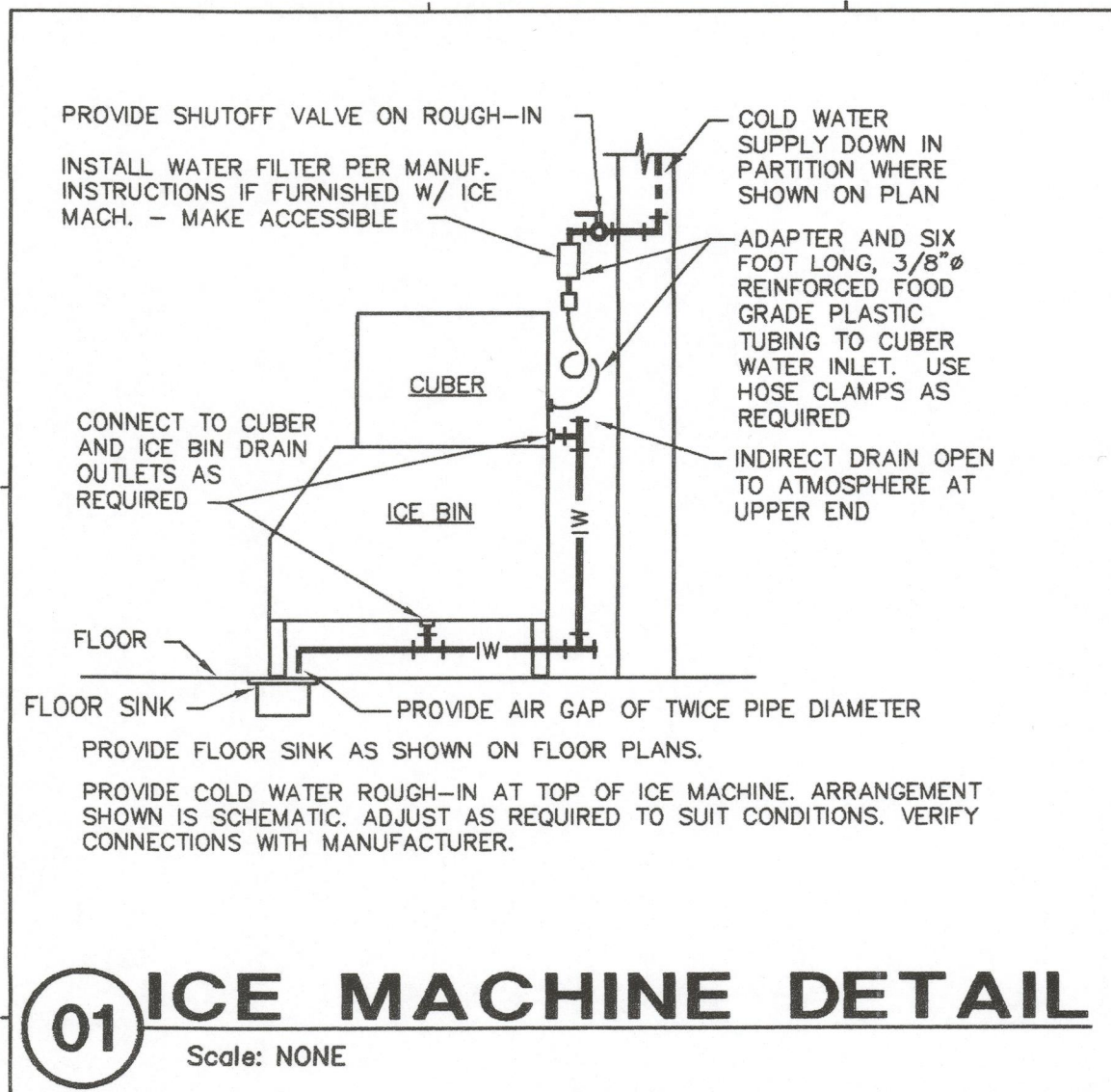
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PROJECT NUMBER
020301.000

SHEET NUMBER
P3.1
OF 6 SHEETS

ORIGINAL ISSUE DATE - 08/08/02
DATE OF THIS PRINTING - 08/08/02

Thu Aug 08 12:20:58 2002



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Fax: (972) 239-5054

NEW IN-LINE STORE
Dover Commons
1275 North Dupont Hwy.
Dover, DE 19901

CHUCK EGGENSEN

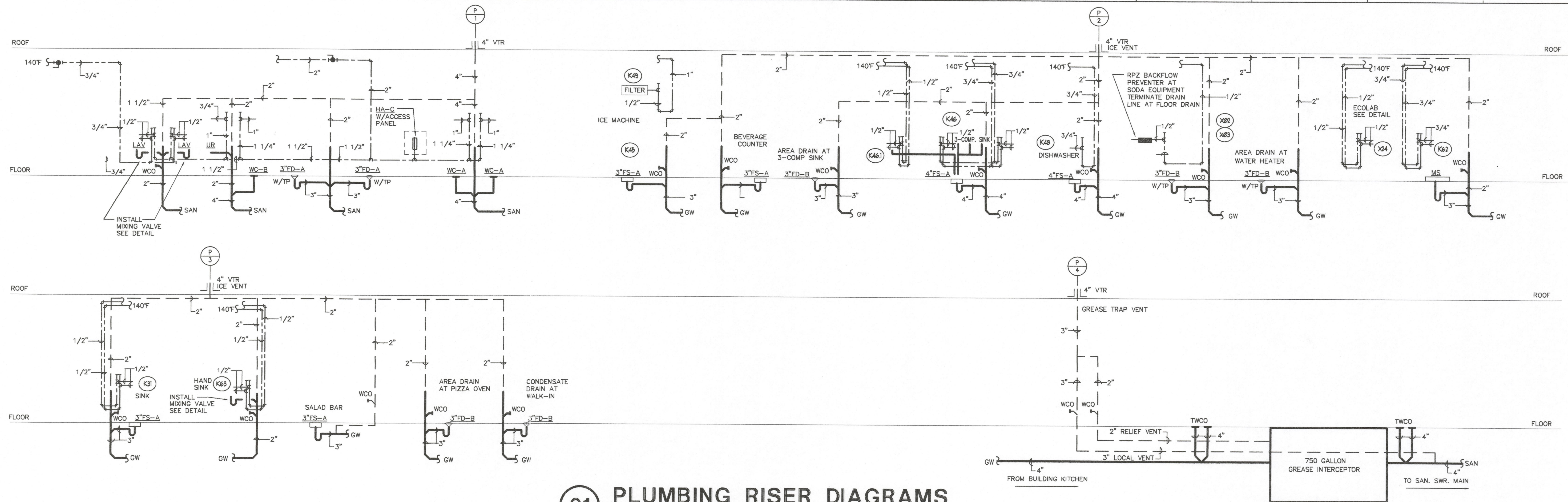
DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY
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DIMENSIONS-NOTIFY ARCHITECT
OF ANY DISCREPANCIES PRIOR
TO BEGINNING CONSTRUCTION

PERMIT SET 08/08/02

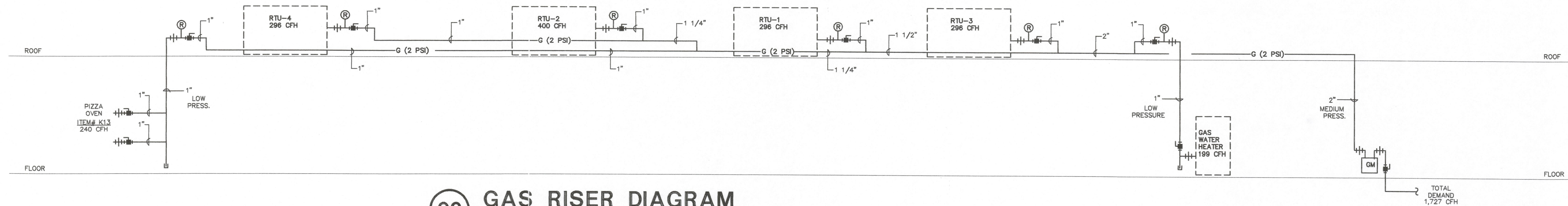
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01 PLUMBING RISER DIAGRAMS
SCALE: NONE



02 GAS RISER DIAGRAM
SCALE: NONE

INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS

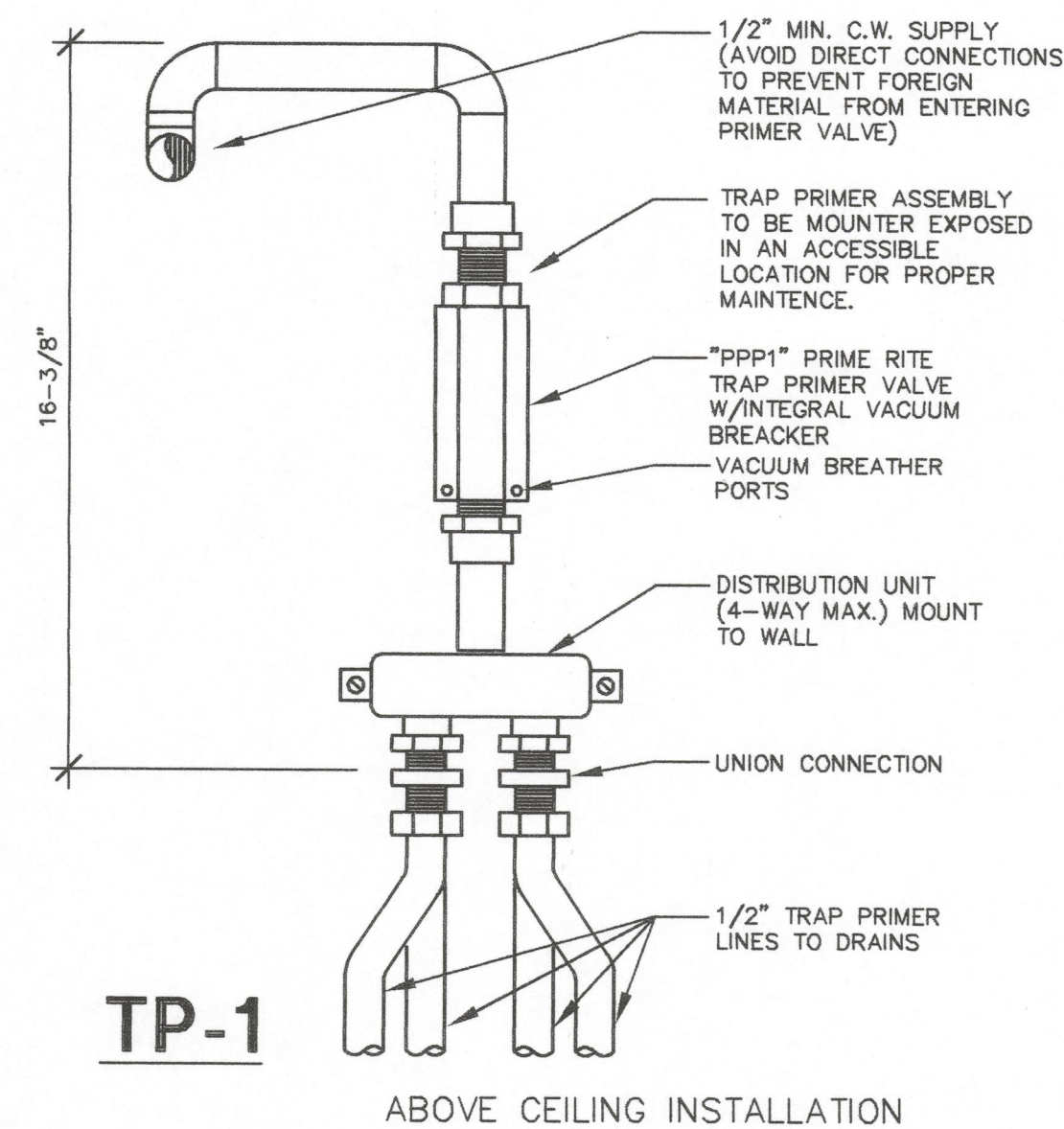
HOT OR COLD WATER SUPPLY

IF HORIZONTAL BRANCH IS LESS THAN 20' LONG, PROVIDE ONE WHA AT END OF LINE. IF BRANCH IS GREATER THAN 20' LONG, PROVIDE ANOTHER WHA IN MIDDLE, EACH SIZED FOR HALF THE FIXTURE UNITS.

SINGLE FIXTURE			MULTIPLE FIXTURES		
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	FIXTURE UNIT TABULATION		
			FIXTURE	COLD	HOT
A	1/2"	1-11	VALVE WATER CLOSET	10	--
B	3/4"	12-32	TANK WATER CLOSET	5	--
C	1"	33-60	URINAL	5	--
D	1-1/4"	61-113	LAVATORY/SINK	1.5	1.5
E	1-1/2"	114-154	JANITOR'S SINK	3	3
F	2"		SHOWER/BATH TUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.28.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

03 HAMMER ARRESTER DETAIL
SCALE: NONE



04 TRAP PRIMER VALVE DETAIL
SCALE: NONE

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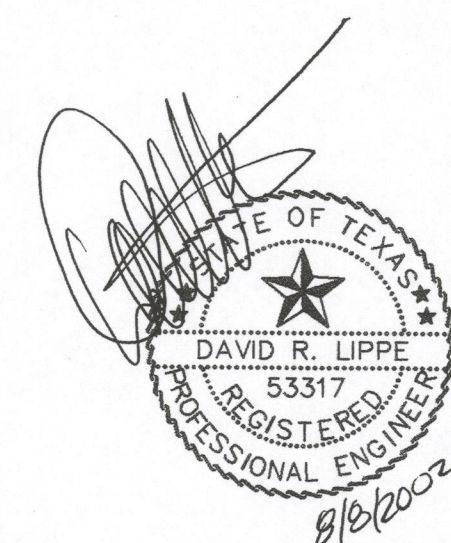
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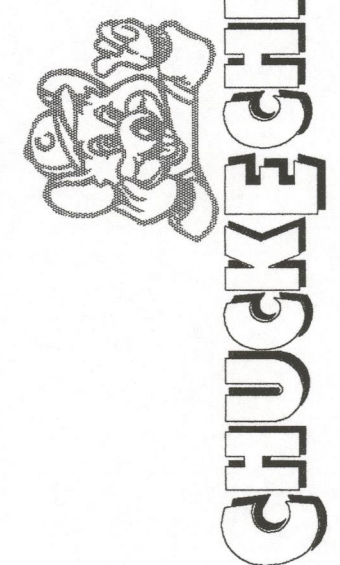
DELEWARE
TEMPORARY
MECHANICAL
AND ELECTRICAL
ENGINEERING
PERMIT NO:
TP#220

LIPPE AND ASSOCIATES
CONSULTING ENGINEERS
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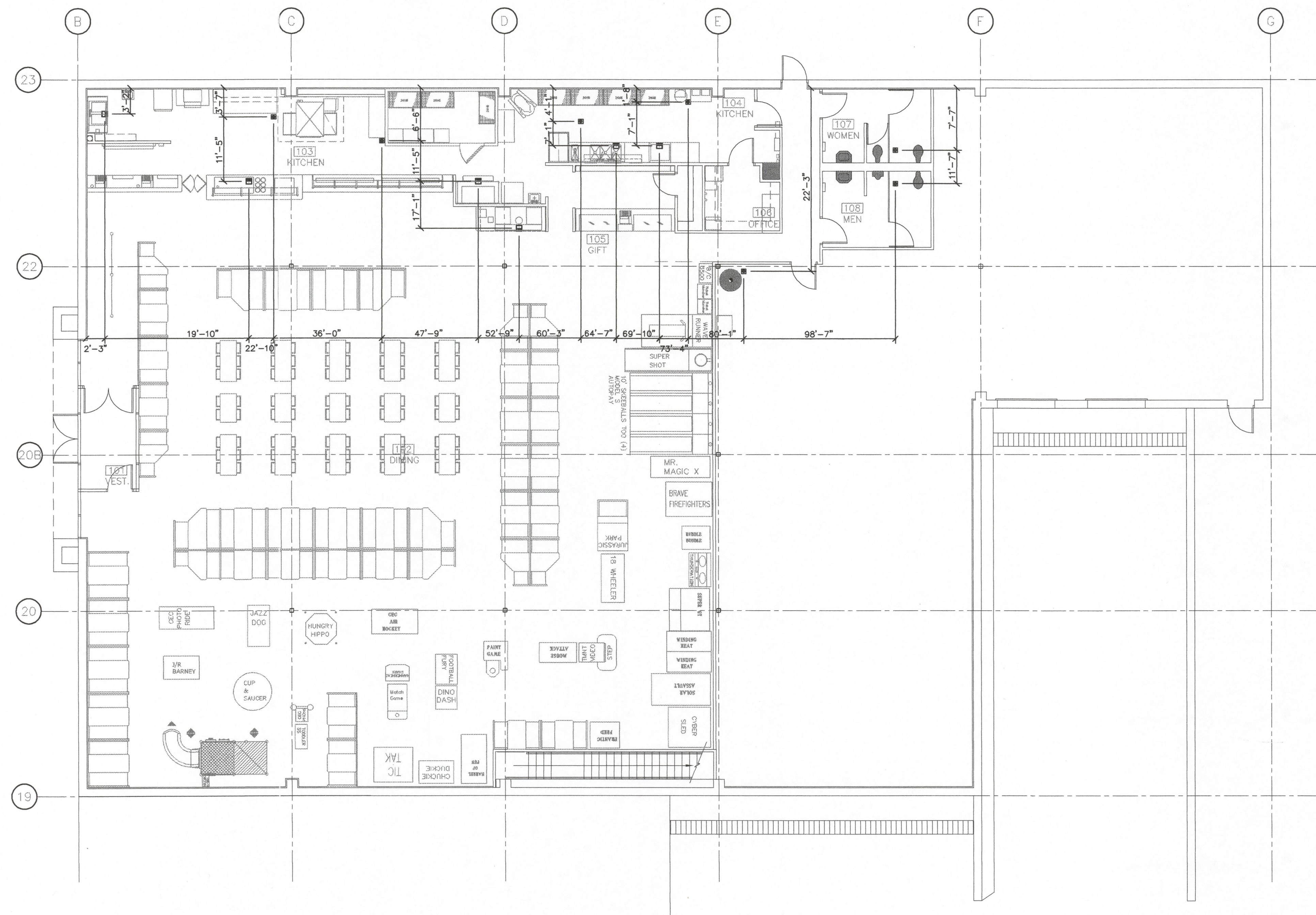
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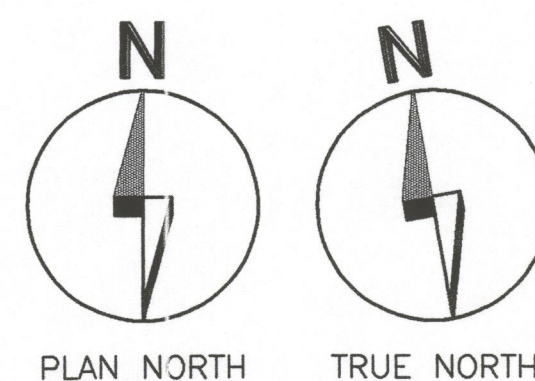
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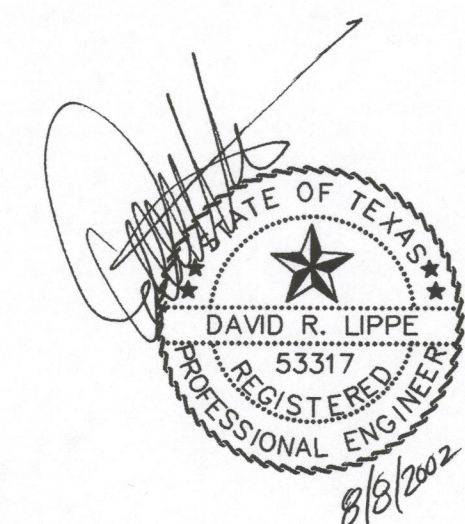
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PLAN NORTH FOR
ROOM FINISH SCHEDULE
ONLY REFER TO SITE
PLAN FOR TRUE NORTH

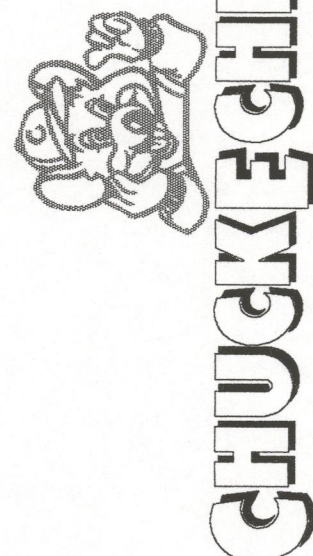


01 PLUMBING FLOOR PLAN - ROUGH-IN
SCALE: 1/8" = 1'-0"



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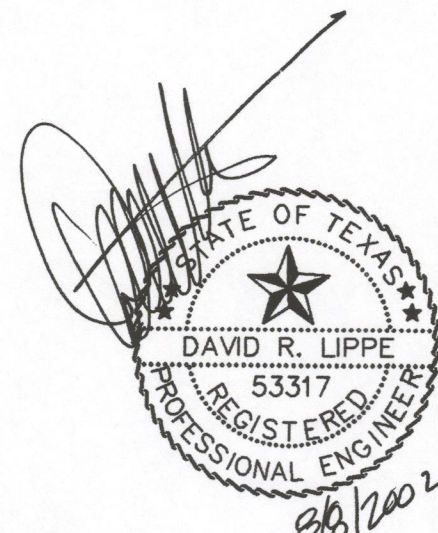
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DELEWARE
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PERMIT NO:
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#020701

SECTION 16111 - CONDUITS

- ELECTRIC METALLIC TUBING or INTERMEDIATE METALLIC CONDUIT: Dry locations.
- RIGID GALVANIZED STEEL: Wet locations.
- FLEXIBLE METAL CONDUIT
 - To light fixtures - with 6" maximum length.
 - To rotating equipment - with 24" maximum length.
- FITTINGS
 - Compression with insulated throats.
 - Threaded hubs for rigid at wet locations.
- SUPPORTS: In accordance with NEC
- EMPTY CONDUITS
 - Pull cords.
 - Tags.
- SIZE
 - 1/2 inch minimum.
 - 3/8 inch minimum flexible (to lighting fixtures).
- ROUTING AND LOCATION
 - Parallel to building lines where exposed to view.
 - As approved by Architect.
- FIRE RATING
Maintain fire rating of all walls, floors and ceilings where conduit penetrates walls, floors and ceilings.

SECTION 16120 - CONDUCTORS

Conductors shall be copper, THWN/THHN for branch circuits, THW or THWN for feeders, installed in accordance with NEC. Minimum size shall be #12 AWG except homerun greater than 75 feet which shall be #10 AWG minimum. Color code all wiring.

SECTION 16140 - WIRING DEVICES

- Outlet Boxes: Galvanized stamped steel for all interior locations. Mount all boxes so that covers and plates will mount flush with the wall and ceiling finished surface. Provide plaster rings as necessary. Goof rings are not acceptable.
- Engineer reserves the right to make minor changes.
- All bars, hangers or caddy clips shall be galvanized steel. No wooden supports or makeshift devices will be allowed.
- Switches receptacles, and covers shall be white.
- Provide rain tight metal boxes with threaded conduit holes and cast metal face plates with spring hinged caps for wet locations.
- Except as noted locate wall outlets at listed below:
 - Switches 48"
 - Receptacles 18"
 - Telephone 18"
 - Thermostats 54"
 - Kitchen and Bath (6" above countertop)
 - Wall Telephone 54"
- When installed in masonry walls, located bottom of box at nearest masonry joint to dimension indicated., where outlets occur above counters or cabinets, correlate height of outlet with equipment so device will clear all trim.
- Devices shall be specification grade, 20 amp minimum. Manufactures: Pass & Seymour, GE or Hubbell. Switches to be quiet type.
- Switches mounted on the strike side of doors.
- Devices to have smooth white nylon plates as required by the device. Outlets without devices, except telephone, to have blank white plates. Fasten plates in place by oval head screws, matching white device.

SECTION 16180 - DISCONNECTS

Furnish and install heavy duty disconnects for all motors located within 50 feet and in sight of each motor.

SECTION 16450 - GROUNDING

- Grounding shall be in accordance with NEC Article 250.
- Provide green coded continuous grounding conductor, in addition to neutral for each circuit run as shown in the panel schedules. Neutral shall not be used as a ground for equipment. Equipment ground bonded to neutral at main service entrance only.

SECTION 16460 - TRANSFORMERS

- Provide three-phase, 60 cycle, dry-type, enclosed, air-cooled transformers where indicated on drawings. KVA rating shall be as noted. Transformers shall bear the UL label. Transformers shall have permanent nameplates with voltages, kva ratings, overload capacity based on allowable temperature rise, and connection diagram.
- Units shall have Class "H" insulation with sound rating not to exceed 45 db in the 15 to 50 KVA size, 50 db in the 51 to 150 KVA size, and 55 db in the 151 to 300 KVA size.
- Voltage rating shall be 480 volts, delta, primary and 120/208 volts, wye, secondary. Provide six 2-1/2% voltage taps, four below and two above normal voltage.
- Temperature rise shall not exceed 150 degrees C above a 40 degrees C ambient. Coils and core shall be mounted on vibration insulators.
- Ground the secondary neutral of transformers to grounding conductor extended from ground bars as indicated on the drawings, and to the transformer enclosure.
- Transformers shall be manufactured in accordance with latest NEMA and UL Standards.

SECTION 16500 - LIGHTING

- REQUIREMENTS:
Fluorescent fixtures shall be as scheduled. No whips greater than six feet are permitted.
- EXIT LIGHTS
Provide exit lights to comply with local codes and connect to the emergency power source.
- All Light fixtures shall be located per the architectural plans.

SECTION 16823 - MECHANICAL EQUIPMENT WIRING

Provide connection to mechanical equipment as required by equipment supplier in accordance with the NEC and other applicable NFPA standards.

SECTION 16740 - TELEPHONES

Provide the necessary telephone rough-ins for the system selected by the owner.

**SPECIFICATIONS
DIVISION 16 - ELECTRICAL**

SECTION 16010 - GENERAL

- GENERAL CONDITIONS: The General Conditions, Special Conditions, Supplementary Conditions and the Electrical specifications of the Main Specifications and "General Conditions of the Contract", current edition, established in standard form by the American Institute of Architects shall apply to all work on this project except as modified below. This Contractor shall familiarize himself with these provisions and adhere to these requirements. This Contractor shall coordinate his work with other trades and tenant provisions prior to installation.
- SCOPE
 - All material and equipment required by these specifications shall be furnished and completely installed together with all accessories and equipment required to allow operation of all equipment and systems as indicated herein and as normally required for mechanical service.
- RELATED DOCUMENTS: This Contractor is referred to the Architectural and Mechanical plans and specifications. Such plans and specifications are a part of the contract documents. Contractors shall visit the site and familiarize themselves with all conditions surrounding the work. If any of the conditions require a modification of the systems indicated by these plans and specifications, the Contractor shall advise the Architect of the required modifications and if approved, include the cost of such modifications in his bid.
- PERMITS AND APPROVALS: Contractor shall provide all required permits and approvals. All work shall be performed in compliance with applicable codes, including local building, mechanical and electrical codes, ADA and Life Safety 101.
- PLANS AND SPECIFICATIONS: Throughout the course of the work, minor change and adjustments to the plans and specifications may be requested by the owner. The contractor shall make such adjustments without additional cost to the owner, where such adjustments are necessary for the proper installation and operation of the systems, and within the intent of the contract documents.

It is the intent of the plans and specifications for form a guide for a complete installation. Everything necessary for the completion and successful operation of the work, whether of not herein definitely specified or indicated on the drawings shall be furnished and installed as if specified or indicated herein at no additional cost to the owner. The Electrical Contractor shall verify all dimensions and lengths prior to installation.

Notwithstanding any other provisions of the contract documents, the Contractor bears ultimate responsibility for compliance of the installation with the requirements for the landlord and the local authority having jurisdiction.

If any errors, discrepancies or omissions appear in the drawings, specifications or other such contract documents, the Contractor shall notify the Engineer in writing of such error or omission. In the event of the contractor failing to give such notice before construction, the errors, discrepancies or omissions shall be rectified by the contractor at no additional cost to the owner.

- AS-BUILT DRAWINGS AND GUARANTEES
 - Provide as-built drawings, maintenance and operating manuals.
 - Guarantees shall be one year.
- MATERIALS AND EQUIPMENT: Materials and equipment shall be new and approved by Architect. Minimum standard shall be as specified herein or as required by code, whichever is more stringent. All equipment provided shall be UL listed unless Underwriters Laboratories does not test that type of equipment.
- UTILITY CONNECTIONS: Make all connections to existing utilities.
- SUBSTITUTIONS: Approval of Engineer required.
- WARRANTY: The Mechanical Contractor shall provide a written warranty that the entire installation is free from defects in materials and workmanship for a period of one year.
- EXAMINATION OF SITE
Examine and inspect the site to determine conditions which will affect the work and include all work related to site conditions in the bid proposal.
- CUTTING AND PATCHING
Coordinate the work to eliminate the cutting of existing work where possible. Where cutting of the existing work is necessary to accommodate the new construction, cut work in an approved and timely manner and patch work immediately thereafter to match existing construction.
- PAINTING
Material in mechanical and electrical rooms shall contain cleaned factory finishes.
- IDENTIFICATION OF ELECTRICAL EQUIPMENT
Label all switchgear, panels, starters, disconnects, etc., with engraved laminated nameplates attached to equipment. Label switches in a similar manner for switches not in sight of the load they control.
- RECORDS FOR OWNER
Provide copy of as-built drawings, approved shop drawings, maintenance and parts list of all equipment. Record drawings shall be reproducible.

SECTION 15050 - BASIC MATERIALS AND METHODS

- HANGERS: All pipe, one per section, per manufacturer's recommendations.
- ACCESS DOORS: Provide for valves and equipment in concealed spaces.
- PAINTING: Finish painting of exposed materials and equipment is excluded from Division 15.
- All equipment shall be installed level.
- SLEEVES: Provide where pipes pass through floors or exterior walls.
- VALVES, STRAINERS AND UNIONS
 - Provide only approved material.
 - Isolate every piece of equipment and fixture with cut-off valves and unions.
 - Valves shall be selected for proper service.
 - Strainers and checks shall be provided to protect equipment and provide proper flow control.
- CUTTING AND PATCHING: Do not cut structural members without first obtaining written permission from the Engineer.
- ROOF PENETRATIONS: Provide all curbs flashings and waterproofing required to complete installation in a manner satisfactory to the Engineer.
- ROUGH-IN AND FINAL CONNECTIONS: Provide as required for all equipment furnished by others.
- IDENTIFICATION
 - Provide approved identification nameplates for all equipment. Use approved identification names.
 - Provide pipe identifiers for all piping.
 - Label all valves.
- PIPING REQUIREMENTS: All piping methods shall conform to industry standards.

SECTION 15058 - DOMESTIC WATER PIPING

- SCOPE: Extend domestic cold water as shown.
- PIPING SYSTEM
 - Piping above grade shall be Type L hard copper with solder joint fittings.
 - A lead-free solder must be used on all domestic water piping.

SECTION 15062 - SANITARY DRAINAGE

- PIPING: Schedule 40 "PVC" piping where allowable by local codes, else use cast iron.
- CLEANOUTS: Provide with approved covers.

SECTION 15180 - INSULATION

- SCOPE: Completely insulate all systems as follows.
- DUCTWORK
 - Supply concealed - 2 inch wrap.
 - Provide liner in supply ducts 15 feet from blower.
- PIPING
 - Domestic cold water - 1/2 inch fiberglass or Armaflex.
 - Hot water piping insulation shall be 1-1/2" fiberglass.
- INSTALLATION
Installation shall be per manufacturer's recommendations. Provide vapor barrier on cold water insulation.

SECTION 15500 - FIRE PROTECTION

- The fire protection contractor shall provide all engineering, design, labor, and materials for the revisions of the existing fire protection system for the new floor plan. All aspects of the design, installations and equipment shall conform to the rules, regulations and requirements of the current standards of NFPA, UL, FM and all state, city and local codes, rules and regulations.
- All piping shall be schedule 40 black steel pipe with grooved and/or screwed fittings.
- Sprinkler heads shall be U.L. and F.M. approved for the use intended and shall be of the proper temperature rating. Sprinkler heads shall be chrome plated, pendent type heads, set in chrome plated or white plastic escutcheon plates (approximately 1/2" deep) and connected to piping run above the ceiling.

SECTION 15700 - AIR CONDITIONING UNITS

- Provide new VAV units per landlord's criteria.
- Provide accessories and install system per the recommendations of the equipment manufacturer.

SECTION 15841 - LOW VELOCITY DUCTWORK

- SCOPE: Provide sheet metal air distribution systems including all material, equipment and accessories for future connections to complete systems.
 - Heating and cooling supply air ducts. Maximum length of flex duct shall be 5' for connection to diffusers.
- All materials and installation shall comply with local codes. Provide fire dampers at all penetrations to fire rated walls and ceilings.
- SHEET METAL: All fabrication per SMACNA standards.

SECTION 15901 - AUTOMATIC CONTROLS

- Provide new space sensors for all units. Coordinate the application of the equipment with the VAV boxes as required by the landlord.
- Interlock exhaust fans serving toilets with lights in the toilets.

SECTION 15998 - HVAC TESTING AND BALANCING

- Upon completion of the installation and start-up of the systems, inspect, check, test, adjust, balance and record data on the performance of the air systems and components thereof.
- The following basic components of the HVAC systems shall be tested, adjusted and balanced:
 - Air Distribution Systems
 - Air Moving Equipment
 - Control Systems Verification
- Services required:
 - Test, adjust and balance the HVAC systems to provide optimum temperature, airflow and noise conditions in the conditioned spaces in the building while the HVAC equipment is operating efficiently.
 - Perform testing, adjusting, balancing and logging actual data on all air distribution and air moving equipment, heating and cooling equipment and the operating conditions of all motors, etc. as indicated in this specification.

**SPECIFICATIONS
DIVISION 15 - MECHANICAL**

SECTION 15010 - STANDARD PROVISIONS

- GENERAL CONDITIONS: The General Conditions, Special Conditions, Supplementary Conditions and the Mechanical specifications of the Main Specifications and "General Conditions of the Contract", current edition, established in standard form by the American Institute of Architects shall apply to all work on this project except as modified below. This Contractor shall familiarize himself with these provisions and adhere to these requirements. This Contractor shall coordinate his work with other trades and tenant requirements prior to installation.
- SCOPE
 - All material and equipment required by these specifications shall be furnished and completely installed together with all accessories and equipment required to allow operation of all equipment and systems as indicated herein and as normally required for mechanical service.
- RELATED DOCUMENTS: This Contractor is referred to the Architectural and Electrical plans and specifications. Such plans and specifications are a part of the contract documents. Contractors shall visit the site and familiarize themselves with all conditions surrounding the work. If any of the conditions require a modification of the systems indicated by these plans and specifications, the Contractor shall advise the Architect of the required modifications and if approved, include the cost of such modifications in his bid.
- PERMITS AND APPROVALS: Contractor shall provide all required permits and approvals. All work shall be performed in compliance with applicable codes, including local building, mechanical and electrical codes, ADA and Life Safety 101.
- PLANS AND SPECIFICATIONS: Throughout the course of the work, minor change and adjustments to the plans and specifications may be requested by the owner. The contractor shall make such adjustments without additional cost to the owner, where such adjustments are necessary for the proper installation and operation of the systems, and within the intent of the contract documents. It is the intent of the plans and specifications for form a guide for a complete installation. Everything necessary for the completion and successful operation of the work, whether of not herein definitely specified or indicated on the drawings shall be furnished and installed as if specified or indicated herein at no additional cost to the owner. The Mechanical Contractor shall verify all dimensions and lengths prior to installation.

Notwithstanding any other provisions of the contract documents, the Contractor bears ultimate responsibility for compliance of the installation with the requirements for the landlord and the local authority having jurisdiction.

If any errors, discrepancies or omissions appear in the drawings, specifications or other such contract documents, the Contractor shall notify the Engineer in writing of such error or omission. In the event of the contractor failing to give such notice before construction, the errors, discrepancies or omissions shall be rectified by the contractor at no additional cost to the owner.

- AS-BUILT DRAWINGS AND GUARANTEES
 - Provide as-built drawings, maintenance and operating manuals.
 - Guarantees shall be one year.
- MATERIALS AND EQUIPMENT: Materials and equipment shall be new and approved by Architect. Minimum standard shall be as specified herein or as required by code, whichever is more stringent. All equipment provided shall be UL listed unless Underwriters Laboratories does not test that type of equipment.
- UTILITY CONNECTIONS: Make all connections to existing utilities.
- SUBSTITUTIONS: Approval of Engineer required.
- WARRANTY: The Mechanical Contractor shall provide a written warranty that the entire installation is free from defects in materials and workmanship for a period of one year.

SECTION 15042 - TESTING AND ADJUSTING

- All pipes shall be tested before they are concealed in furrings or chases, insulated, painted, or otherwise covered up or rendered inaccessible. Testing shall be accomplished by section of line or systems as required by the conditions during construction.
 - Soil, waste, vent, and drain lines: After all vertical soil, waste and vent lines have been set, all the outlets shall be temporarily plugged up. The pipes shall be filled with water, full to the top and allowed to remain so for at least four (4) hours. A final test shall be made after all vertical and horizontal soil, waste, and vent pipes have been installed, and before the sewer connections are made. In this case, as before, all pipes shall be filled to the top of the vertical lines and allowed to remain so for four (4) hours.
 - Minimum test pressure for all sections of piping shall be five (5) feet of water.
 - Water Systems: All water lines shall be tested under a hydrostatic pressure of 150 psig and proved tight.
- Any leaks in piping systems shall be repaired. Leaks in soldered joints shall be repaired by remaking the joint and not soldering or brazing over existing joints will be permitted. Leaks in screwed joints shall be repaired by remaking the joint if tightening fails to stop the leak. Leaks in the caulked joints may be stopped by additional caulking of the joint; but, if that fails, the joints shall be remade. When any defect is repaired, that section of the system shall be retested and proved tight.